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GODDARD SPACE FLIGHT CENTER  
GREENBELT, MARYLAND, U.S.A. 20771

# SATELLITE SITUATION REPORT

VOLUME 33, NUMBER 4

DECEMBER 31, 1993



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NASA/GODDARD SPACE FLIGHT CENTER  
GREENBELT, MARYLAND, U.S.A 20771

## USING THE SATELLITE SITUATION REPORT

The Satellite Situation Report is a listing of those satellites (objects) currently in orbit and those which have previously orbited the Earth. Some objects are too small or too far from the Earth's surface to be detected; therefore, the Satellite Situation Report does not include all manmade objects orbiting the Earth.

Generally, satellites are classified as follows:

- a. Payloads may contain one or more functioning or nonfunctioning experiments. Usually only the owners of the satellites know if the experiments are functioning, and there is no one source which indicates the operational status of all payloads and/or experiments. Payloads are normally the first listed in the Satellite Situation Report, i.e., 1982 087A, unless there are multiple payloads for the launch. In which case, the first objects cataloged are usually all payloads, unless a subsequent payload is later identified after objects other than payloads have been cataloged.
- b. Platforms are used to support a payload while it is being placed into orbit. A platform may remain in orbit long after its purpose is served, usually longer than rocket bodies. It is usually the first object identified in the Satellite Situation Report listing after the payload(s), i.e., 1982 087B (when a platform is not used, the first object after the payload(s) is usually the rocket body).
- c. Rocket bodies are used to place the payload and platform (if one is used) into orbit. Some launches may have more than one rocket body because of the payload weight or the type of orbit or experiment. Most rocket bodies decay within a short time after the payload (and platform) have achieved orbit. Rocket bodies are usually the third object listed in the Satellite Situation Report after the payload(s), i.e., 1982 087C.
- d. Debris in orbit occurs when parts (nosecone shrouds, lens or hatch covers) are separated from the payload, when rocket bodies or payloads disintegrate or explode, or when objects are placed into free space from manned orbiting spacecraft during operations. Debris is detected by its size and distance from the Earth. Debris objects are the last objects after payload(s), platform, and rocket body(s) listed in the Satellite Situation Report, i.e., 1982 087D, 1982 087E, 1982 087F.

The Satellite Situation Report does not attempt to classify payloads by experiment or function, such as geosynchronous satellites, communications satellites, Earth resources, and others. Certain groups of satellites, by the nature of their function, have similar inclinations, periods, and apogees.

Geosynchronous satellites have almost equal apogee and perigee, inclinations close to 0 degrees, and a period of orbit approaching 1,440 minutes. These satellites are located almost directly above the Equator because they orbit at approximately the same speed that the surface of the Earth moves in relation to the Sun. Elements for these satellite types vary little. Communications satellites are usually geosynchronous.

Although some are in geosynchronous orbit, most weather satellites have almost equal apogee and perigee, inclinations approaching 90 degrees, and a 90-minute period of orbit (they orbit the Earth once for each 15 degrees of Earth rotation). Weather satellites are only one type of Earth resources satellite. Others in the Earth resources category map the location of minerals, water, and vegetation. These satellites may have apogees and perigees that are very divergent, and the period of orbit can range from 400 to 700 minutes.



Certain terms used in the Satellite Situation Report are defined as follows:

AEROCENTRIC ORBIT

Object was launched from Earth and was last known to be in orbit around Mars, but its orbit cannot be confirmed.

BARYCENTRIC ORBIT

Object was launched from Earth and was last known to be orbiting around a mass in space at a point of equal Earth and Moon or Earth and Sun gravitational pull, but its orbit cannot be confirmed.

ELEMENTS NOT AVAILABLE

Object was launched from Earth and elements are not available.

HELIOCENTRIC ORBIT

Object was launched from Earth and was last known to be in orbit around the Sun, but its orbit cannot be confirmed.

INITIAL ELEMENTS  
NOT AVAILABLE

Object was launched from Earth but was not in orbit long enough to establish elements before it decayed into the Earth's atmosphere.

MARS ORBIT

Object was launched from Earth and was last known to be in orbit around Mars, but its orbit cannot be confirmed.

NO CURRENT ELEMENTS

Object was launched from Earth and current elements are not available.

SELENOCENTRIC ORBIT

Object was launched from Earth and was last known to be in orbit around the Moon, but its orbit cannot be confirmed.

SOLAR SYSTEM ESCAPE  
TRAJECTORY

Object was launched from Earth and was last known to be in a trajectory that would allow the object to escape the gravitational pull of any body in the solar system.

VENUS IMPACT

Object was launched from Earth and was last known to be in a trajectory that would have caused the object to impact on Venus, but its impact cannot be confirmed.

VENUS ORBIT

Object was launched from Earth and was last known to be in orbit around Venus, but its orbit cannot be confirmed.

# SPACE OBJECTS BOX SCORE

SOURCE/ORGANIZATION	OBJECTS IN ORBIT		DECAYED OBJECTS		TOTAL
	PAYLOAD	DEBRIS	PAYLOAD	DEBRIS	
ARGNT = ARGENTINA	1	0	0	0	0
ASCO = ARAB SAT. COMM. ORG.	0	0	0	0	0
ASIASA = ASIATASAT CORP.	0	0	0	0	0
AUSTRAL = AUSTRALIA	6	1	1	0	1
BRAZIL = BRAZIL	4	0	0	0	0
CANADA = CANADA	16	0	1	0	1
CZECH = CZECHOSLOVAKIA	1	0	1	0	1
ESA = EUROPEAN SPACE AGENCY	24	137	4	450	454
ESRO = EURO. SPACE RES. ORG.	0	0	7	3	10
FR/FRG = FRANCE/FED. REP. GER.	2	0	0	0	0
FRANCE = FRANCE	23	18	7	59	66
FRG = FEDERAL REPUBLIC GER.	12	2	5	5	10
IMSO = INT. MARIT. SAT. ORG.	3	0	0	0	0
INDIA = INDIA	9	2	6	8	14
INDO = INDONESIA	6	0	1	1	2
ISRAEL = ISRAEL	0	0	2	2	4
ITALY = ITALY	4	0	5	0	5
ITSO = INT. TELECOM. SAT. ORG.	43	0	1	0	1
JAPAN = JAPAN	49	52	9	72	81
KOREA = KOREA	2	0	0	0	0
LUXBRG = LUXEMBOURG	3	2	0	0	0
LUXICO = MEXICO	3	0	0	0	0
NATO = NORTH AT. TREATY ORG.	7	2	0	0	0
NETH = NETHERLANDS	0	0	1	3	4
PAKI = PAKISTAN	0	0	1	0	1
PORTUG = PORTUGAL	1	0	0	0	0
PRC = PEOPLES REP. OF CHINA	11	79	23	78	101
SAUDI = SAUDI ARABIA	3	0	0	0	0
SPAIN = SPAIN	3	1	0	0	0
SWEDEN = SWEDEN	3	0	0	0	0
THAIL = THAILAND	1	0	0	0	0
UK = UNITED KINGDOM	16	1	8	4	12
US = UNITED STATES	622	2691	644	2860	3504
USSR = RUSSIA	1275	2395	1606	9557	11163
COLUMN	2153	5383	2333	13102	15435
SUM TOTAL					22971

[illegible]

OBJECTS IN ORBIT											
INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOTNOTES	
NU 1	EXPLORER 11	107	US	27 APR	104.5	28.8	1458	480	0.71		
NU 2		3739	US	27 APR	90.6	28.8	334	273	0.26		
OMICRON 1	TRANSIT 4A	116	US	29 JUN	103.5	66.8	986	865	2.87		
OMICRON 2	INUUN-SR-3	117	US	29 JUN	103.6	66.8	991	870	0.63		
OMICRON 3 TO 297			US	29 JUN	SEE NOTE		3*			3*	
RHO 1	TIROS 3	162	US	12 JUL	100.0	47.9	790	723	1.14		
RHO 2		165	US	12 JUL	98.0	47.9	683	646	0.70		
RHO 4		167	US	12 JUL	101.5	47.9	900	759	0.09		
SIGMA 1	MIDAS 3	163	US	12 JUL	161.4	91.2	3540	3343	9.25		
SIGMA 3		188	US	12 JUL	161.1	91.2	3546	3309	0.68		
SIGMA 4		196	US	12 JUL	161.8	91.2	3558	3358	0.38		

# 1962 LAUNCHES

A ALPHA 1	TIROS 5		309	US	19 JUN	99.4	58.1	880	580	1.60	
A ALPHA 3			312	US	19 JUN	100.0	58.3	940	580	0.12	
A ALPHA 5	TELSTAR 1		6251	US	19 JUN	97.1	58.1	708	535	0.00	
A EPSILON 1			340	US	10 JUL	157.8	44.8	5643	945	0.39	
A EPSILON 2			341	US	10 JUL	157.6	44.8	5626	946	0.41	
A OMICRON 1			369	US	23 AUG	98.1	98.5	752	578	0.44	
A OMICRON 4			388	US	23 AUG	94.6	98.5	530	470	0.61	
A PSI 1	TIROS 6		397	US	18 SEP	97.6	58.3	654	631	1.17	
A PSI 3			399	US	18 SEP	97.3	58.4	656	606	0.08	
A PSI 5			19436	US	18 SEP	90.9	58.3	326	313	0.00	
A RHO 1	MARINER 2		374	US	27 AUG	HELIOCENTRIC ORBIT					
A RHO 2			375	US	27 AUG	HELIOCENTRIC ORBIT					
ALPHA 1	RANGER 3		221	US	26 JAN	HELIOCENTRIC ORBIT					
ALPHA 2			222	US	26 JAN	HELIOCENTRIC ORBIT					
B ALPHA 1	ALOUETTE 1		424	CANADA	29 SEP	105.2	80.5	1021	987	1.19	
B ALPHA 2			426	US	29 SEP	105.2	80.5	1019	991	2.44	
B ALPHA 3			510	US	29 SEP	105.2	80.5	1013	989	0.02	
B ALPHA 4			511	US	29 SEP	105.3	80.4	1029	983	0.02	
B CHI 1	EXPLORER 16		506	US	16 DEC	104.1	52.0	1159	744	1.12	
B ETA 1	RANGER 5		439	US	18 OCT	HELIOCENTRIC ORBIT					
B ETA 2			440	US	18 OCT	HELIOCENTRIC ORBIT					
B MU 1	ANNA 1B		446	US	31 OCT	107.9	50.1	1181	1075	0.41	
B MU 2			447	US	31 OCT	107.6	50.1	1164	1065	7.63	
B MU 3			450	USSR	01 NOV	HELIOCENTRIC ORBIT					
B UPSILON 1	RELAY 1		503	US	13 DEC	185.1	47.5	7440	1319	1.25	
B UPSILON 2			515	US	13 DEC	184.8	47.5	7422	1318	0.43	
BETA 1	TIROS 4		226	US	08 FEB	99.9	48.3	812	693	0.88	
BETA 2			227	US	08 FEB	100.6	48.2	887	683	0.08	
BETA 3			228	US	08 FEB	97.8	48.4	672	634	0.06	
BETA 4			229	US	08 FEB	97.3	48.3	659	600	0.52	
KAPPA 1			271	US	09 APR	152.9	86.7	3404	2784	12.90	
KAPPA 3			273	US	09 APR	152.5	86.7	3361	2796	0.66	
KAPPA 4			274	US	09 APR	153.3	86.7	3442	2773	0.23	
KAPPA 7			18603	US	26 OCT	153.0	86.7	3406	2789	0.30	
KAPPA 8			19981	US	26 OCT	152.7	86.7	3379	2793	0.22	
MU 2			282	US	23 APR	HELIOCENTRIC ORBIT					

# 1963 LAUNCHES

INTER-  
NATIONAL  
DESIGNATION

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INTER- NATIONAL DESIGNATION			OBJECTS IN ORBIT								
			CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1963-053K			17665	US	19 DEC	110.6	78.7	1863	645	0.06	
1963-054A		TIROS 8	716	US	21 DEC	98.5	58.5	706	667	0.90	
1963-054C			720	US	21 DEC	100.1	58.5	857	666	0.01	
1963-054E			19396	US	21 DEC	98.0	58.5	690	639	0.01	
1964 LAUNCHES											
1964-001A		GRAVITY GRADIENT 1	727	US	11 JAN	103.2	69.9	921	902	7.46	
1964-001B			728	US	11 JAN	103.2	69.9	916	899	0.36	
1964-001C		SECOR (EGRS) 1	729	US	11 JAN	103.3	69.9	922	902	0.39	
1964-001D		SOLRAD 7A	730	US	11 JAN	103.2	69.9	920	902	0.48	
1964-001E		GREB	731	US	11 JAN	103.2	69.9	920	901	0.64	
1964-002A			733	US	19 JAN	100.7	99.0	818	768	10.00	
1964-002B			734	US	19 JAN	100.9	99.0	815	789	0.34	
1964-002C		RELAY 2	735	US	19 JAN	100.9	99.0	815	791	0.42	
1964-003A			737	US	21 JAN	194.7	46.4	7540	1961	0.84	
1964-003B			738	US	21 JAN	194.8	46.4	7546	1960	0.70	
1964-004B			741	US	25 JAN	108.8	81.5	1299	1040	7.49	
1964-004C			742	US	25 JAN	108.6	81.5	1293	1032	0.99	
1964-004D			743	US	25 JAN	108.6	81.5	1294	1028	0.86	
1964-006A		ELEKTRON 1	746	USSR	30 JAN	162.7	60.8	6583	400	4.12	
1964-006B		ELEKTRON 2	748	USSR	30 JAN	1356.4	60.2	62807	5615	0.20	
1964-006E	TO OOGAE			USSR	30 JAN	SEE NOTE		5*			5*
1964-006J			16545	USSR	30 JAN	114.3	60.7	2468	375	0.01	
1964-006L			16547	USSR	30 JAN	113.9	60.7	2437	373	0.01	
1964-016D	ZOND 1		785	USSR	02 APR	HELIOCENTRIC ORBIT					
1964-026A			801	US	04 JUN	102.2	90.5	899	825	2.92	
1964-026B			805	US	04 JUN	102.0	89.9	884	826	0.05	
1964-026C			806	US	04 JUN	98.8	90.8	742	664	0.03	
1964-026D			809	US	04 JUN	102.5	90.5	914	838	0.56	
1964-026E			2986	US	04 JUN	102.6	90.5	924	838	0.10	
1964-031A			812	US	18 JUN	101.2	99.8	820	812	0.25	
1964-031B			813	US	18 JUN	101.3	99.8	822	814	0.25	
1964-031C			815	US	18 JUN	101.1	99.8	817	799	3.91	
1964-038A		ELEKTRON 3	829	USSR	10 JUL	161.0	60.8	6446	403	4.38	
1964-038C			831	USSR	10 JUL	137.4	60.7	4493	392	0.14	
1964-040A			836	US	17 JUL	NO CURRENT ELEMENTS					
1964-040B			837	US	17 JUL	NO CURRENT ELEMENTS					
1964-041B			843	US	28 JUL	NO CURRENT ELEMENTS					
1964-047A		SYNCOM 3	858	US	19 AUG	NO CURRENT ELEMENTS					
1964-047B			862	US	19 AUG	702.3	16.0	38431	1158	0.55	
1964-049D		COSMOS 41	869	USSR	22 AUG	714.5	68.4	39161	1032	0.60	
1964-049E			898	USSR	22 AUG	717.4	68.6	39272	1061	1.00	
1964-049F			13091	USSR	22 AUG	716.2	68.1	39536	739	0.31	
1964-051A		EXPLORER 20	870	US	25 AUG	103.6	79.9	1001	855	0.58	
1964-051B			871	US	25 AUG	103.2	79.9	976	843	1.17	
1964-053A		COSMOS 44	876	USSR	28 AUG	98.7	65.1	809	581	8.43	
1964-053B			877	USSR	28 AUG	99.0	65.1	769	648	4.63	
1964-053C			21126	USSR	28 AUG	98.9	65.1	763	645	0.01	
1964-054A		OGO 1	879	US	05 SEP	NO CURRENT ELEMENTS					
1964-063A		NNSS 30010	893	US	06 OCT	106.2	90.1	1067	1030	1.75	
1964-063B			897	US	06 OCT	106.4	90.1	1073	1045	0.80	
1964-063C			900	US	06 OCT	105.5	90.1	1034	997	0.04	

## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION											
NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES		
EXPLORER 22	901	US	06 OCT	106.4	90.1	1070	1044	1.26			
	902	US	06 OCT	106.4	90.1	1075	1048	0.11			
	903	US	06 OCT	105.3	90.1	1026	993	0.07			
	18496	US	06 OCT	104.2	90.1	996	915	0.05			
	899	US	10 OCT	104.3	79.7	1053	872	0.38			
	907	US	10 OCT	104.4	79.7	1057	876	1.30			
	976	US	10 OCT	103.0	79.3	996	806	0.06			
	977	US	10 OCT	104.8	80.0	1085	886	0.03			
	923	US	05 NOV	HELIOCENTRIC ORBIT							
	932	US	21 NOV	114.6	81.4	2349	524	0.51			
EXPLORER 25	933	US	21 NOV	113.8	81.3	2282	523	0.19			
	938	US	28 NOV	HELIOCENTRIC ORBIT							
MARINER 4	942	US	28 NOV	HELIOCENTRIC ORBIT							
	945	USSR	30 NOV	HELIOCENTRIC ORBIT							
ZOND 2	953	US	13 DEC	106.0	89.8	1063	1016	8.40			
	956	US	13 DEC	105.7	89.7	1052	999	0.08			
NNS 30020	959	US	13 DEC	105.9	89.8	1064	1007	2.08			
	965	US	13 DEC	106.1	89.7	1079	1015	2.59			
EXPLORER 26	967	US	13 DEC	105.7	89.7	1052	999	0.08			
	1099	US	13 DEC	105.9	89.7	1063	1007	0.68			
	1608	US	13 DEC	105.0	89.7	1022	968	0.09			
	963	US	21 DEC	205.7	19.8	10044	287	0.83			
1965 LAUNCHES											
TIROS 9	978	US	22 JAN	118.9	96.4	2564	701	0.55			
	979	US	22 JAN	118.7	96.4	2546	700	0.59			
	1312	US	22 JAN	117.5	96.4	2465	670	0.10			
	1313	US	22 JAN	120.0	96.4	2634	730	0.10			
	1001	US	11 FEB	145.4	32.2	2796	2766	10.06			
	1000	US	11 FEB	145.7	32.1	2802	2784	3.39			
	1002	US	11 FEB	145.8	32.1	2809	2783	0.68			
	1087	US	17 FEB	BARYCENTRIC ORBIT							
	1271	US	09 MAR	103.2	70.1	926	894	0.87			
	1244	US	09 MAR	103.2	70.1	928	895	0.89			
	1292	US	09 MAR	103.0	70.1	915	886	1.89			
	1291	US	09 MAR	103.3	70.1	931	897	0.54			
	1208	US	09 MAR	103.2	70.1	927	896	0.25			
	1293	US	09 MAR	102.8	70.1	900	876	0.38			
	1272	US	09 MAR	103.3	70.1	932	897	0.49			
GREB GRAVITY GRADIENT 2 GRAVITY GRADIENT 3 SOLRAD 7B SECOR (EGRS) 3 OSCAR 3 SURCAL	1245	US	09 MAR	103.2	70.1	924	892	12.08			
	12099	US	09 MAR	102.9	70.1	912	883	0.41			
	1335	USSR	15 MAR	106.0	56.1	1489	591	1.07			
	1347	USSR	15 MAR	101.3	56.0	1117	524	0.22			
	1370	USSR	15 MAR	101.9	56.1	1172	521	0.12			
	1392	USSR	15 MAR	104.2	55.9	1389	525	0.48			
	1477	USSR	15 MAR	111.8	55.5	1791	828	0.33			
	1478	USSR	15 MAR	109.5	56.1	1786	621	0.27			
	1479	USSR	15 MAR	114.8	56.0	2087	804	0.14			
	1480	USSR	15 MAR	114.5	56.1	2126	742	0.20			
	1495	USSR	15 MAR	114.4	55.6	1179	607	0.04			
	1549	USSR	15 MAR	114.4	56.2	2097	760	0.21			
	1634	USSR	15 MAR	115.7	56.2	2179	797	0.10			
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INTER- NATIONAL DESIGNATION			OBJECTS IN ORBIT									
NAME			CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES	
1965-020EH			2334	USSR	15 MAR	110.6	55.7	1725	786	0.13		
1965-020EM			2934	USSR	15 MAR	115.4	55.6	1757	1187	0.07		
1965-020EN			3038	USSR	15 MAR	107.7	56.3	1656	585	0.10		
1965-020ER			3708	USSR	15 MAR	102.4	56.3	1151	595	0.04		
1965-020ES			3743	USSR	15 MAR	118.1	56.7	1799	1391	0.04		
1965-020ET			3745	USSR	15 MAR	115.3	56.0	1590	1344	0.03		
1965-020EU			3749	USSR	15 MAR	107.1	56.1	1578	610	0.04		
1965-020EV			3931	USSR	15 MAR	116.6	56.1	1695	1360	0.05		
1965-020EY			3965	USSR	15 MAR	117.7	56.3	1787	1370	0.10		
1965-020FD			6252	USSR	15 MAR	117.1	56.0	1696	1405	0.03		
1965-020FF			13517	USSR	15 MAR	109.2	55.6	1654	724	0.02		
1965-023B			1298	US	21 MAR	HELIOCENTRIC ORBIT						
1965-027A			1314	US	03 APR	111.4	90.3	1314	1270	12.22		
1965-027B			1315	US	03 APR	111.4	90.3	1312	1266	0.29		
1965-027C	TO 027BD	SECDR (EGRS) 4		US	03 APR	SEE NOTE						
1965-028A	EARLY BIRD		1317	ITSD	06 APR	1434.9	14.7	35794	35730	0.14		
1965-028B			1318	US	06 APR	680.0	18.1	37022	1453	1.06		
1965-032A	EXPLORER 27		1328	US	29 APR	107.7	41.2	1309	932	2.58		
1965-032B			1358	US	29 APR	107.7	41.2	1310	934	0.64		
1965-032D			2011	US	29 APR	108.2	41.2	1293	998	0.09		
1965-034A			1359	US	06 MAY	157.1	32.1	3746	2784	24.11		
1965-034B			1360	US	06 MAY	309.9	32.2	14810	2771	0.30		
1965-034C			1361	US	06 MAY	145.6	32.1	2795	2786	0.79		
1965-034D			2529	US	06 MAY	309.9	32.2	14808	2771	0.30		
1965-038A			1377	US	20 MAY	97.1	98.1	731	503	0.77		
1965-038B			1378	US	20 MAY	92.8	97.9	438	380	0.91		
1965-044A	LUNA 6		1393	USSR	08 JUN	HELIOCENTRIC ORBIT						
1965-044A	NNSS 30040		1420	US	24 JUN	106.6	90.1	1124	1016	2.82		
1965-048B			1428	US	24 JUN	106.4	90.1	1106	1018	5.78		
1965-048C			1425	US	24 JUN	106.7	90.1	1129	1021	0.24		
1965-048D			1435	US	24 JUN	105.8	90.1	1080	979	0.09		
1965-048E			2701	US	24 JUN	106.0	90.1	1082	996	0.03		
1965-048F			3592	US	24 JUN	106.0	90.1	1085	999	0.10		
1965-048G			21945	US	24 JUN	105.3	90.1	1078	934	0.01		
1965-051A	TIRDS 10		1430	US	02 JUL	100.1	98.8	807	721	0.85		
1965-051B			1433	US	02 JUL	99.5	98.7	770	699	0.78		
1965-051C			1440	US	02 JUL	92.8	98.5	428	397	0.06		
1965-051D			1529	US	02 JUL	101.4	99.0	855	797	0.09		
1965-056A	ZOND 3		1454	USSR	18 JUL	HELIOCENTRIC ORBIT						
1965-058A			1458	US	20 JUL	NO CURRENT ELEMENTS						
1965-058B			1459	US	20 JUL	NO CURRENT ELEMENTS						
1965-063A	SECDR (EGRS) 5		1502	US	10 AUG	122.2	69.2	2419	1134	0.44		
1965-063B			1506	US	10 AUG	122.2	69.2	2418	1136	0.20		
1965-064A	CENTAUR 6		1503	US	11 AUG	BARYOCENTRIC ORBIT						
1965-065A	NNSS 30050		1504	US	13 AUG	107.7	90.0	1169	1068	0.06		
1965-065B			1508	US	13 AUG	107.5	89.8	1140	1081	0.06		
1965-065C			1510	US	13 AUG	105.4	90.0	1050	979	2.62		
1965-065D			1511	US	13 AUG	107.9	90.0	1184	1077	0.90		
1965-065E			1512	US	13 AUG	108.0	90.0	1186	1078	0.09		
1965-065F			1514	US	13 AUG	107.9	90.0	1184	1075	2.52		
1965-065G			1515	US	13 AUG	107.2	90.0	1144	1047	0.09		
1965-065H			1520	US	13 AUG	107.9	90.1	1181	1073	0.04		
1965-065J			1521	US	13 AUG	108.0	89.9	1187	1079	0.09		



## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1965-065K			1577	US	13 AUG	107.9	89.9	1181	1073	0.13	
1965-065L			1522	US	13 AUG	108.0	90.0	1187	1077	0.26	
1965-065P			3810	US	13 AUG	107.2	90.0	1145	1046	0.01	
1965-065Q			5265	US	13 AUG	107.8	89.8	1153	1092	1.63	
1965-070A		COSMOS 80	1570	USSR	03 SEP	115.0	56.1	1541	1365	0.16	
1965-070B		COSMOS 81	1571	USSR	03 SEP	115.3	56.1	1542	1397	0.54	
1965-070C		COSMOS 82	1572	USSR	03 SEP	115.7	56.1	1548	1421	0.48	
1965-070D		COSMOS 83	1573	USSR	03 SEP	116.0	56.1	1561	1443	0.53	
1965-070E		COSMOS 84	1574	USSR	03 SEP	116.4	56.1	1572	1466	0.83	
1965-070F			1575	USSR	03 SEP	114.6	56.1	1514	1356	12.28	
1965-070G			3045	USSR	03 SEP	115.9	55.5	1729	1258	0.04	
1965-072A			1580	US	10 SEP	101.2	98.5	993	635	0.19	
1965-072E			1583	US	10 SEP	100.1	98.5	907	616	0.89	
1965-072F			1931	US	10 SEP	101.6	99.1	1046	624	0.13	
1965-073A		COSMOS 86	1932	US	10 SEP	97.8	98.2	730	576	0.07	
1965-073B		COSMOS 87	1584	USSR	18 SEP	115.0	56.1	1626	1287	0.68	
1965-073C		COSMOS 88	1585	USSR	18 SEP	115.4	56.1	1633	1317	0.36	
1965-073D		COSMOS 89	1586	USSR	18 SEP	115.8	56.1	1645	1339	0.48	
1965-073E		COSMOS 90	1587	USSR	18 SEP	116.2	56.1	1659	1363	0.31	
1965-073F			1588	USSR	18 SEP	116.6	56.1	1668	1391	0.90	
1965-073G			1589	USSR	18 SEP	116.8	56.1	1677	1395	19.05	
1965-073H			1590	USSR	18 SEP	115.9	56.1	1626	1361	0.05	
1965-073J			1591	USSR	18 SEP	116.2	56.1	1656	1364	0.06	
1965-073K			1617	USSR	18 SEP	117.0	56.1	1737	1355	0.24	
1965-073L			1618	USSR	18 SEP	117.3	56.2	1739	1381	0.11	
1965-078A			2647	USSR	18 SEP	115.9	56.1	1646	1350	0.08	
1965-078B			1613	US	05 OCT	117.6	144.2	2736	407	0.56	
1965-082B			1616	US	05 OCT	116.1	144.2	2602	406	1.56	
TO 082UO											
1965-089A		EXPLORER 29	1726	US	06 NOV	SEE NOTE					
1965-089B			1729	US	06 NOV	120.3	59.4	2273	1114	0.32	7*
1965-089C			2700	US	06 NOV	120.3	59.4	2268	1115	0.75	
1965-089D			2888	US	06 NOV	119.1	59.6	2220	1063	0.05	
1965-091A		VENERA 2	1730	USSR	06 NOV	121.3	59.2	2321	1155	0.06	
1965-092D			1736	USSR	12 NOV	HELIOCENTRIC ORBIT					
1965-093A		EXPLORER 30	1738	US	16 NOV	HELIOCENTRIC ORBIT					
1965-093B			1739	US	19 NOV	100.2	59.7	871	667	0.57	
1965-093C			1739	US	19 NOV	99.8	59.7	823	673	0.64	
1965-093D			2013	US	19 NOV	97.7	59.7	690	607	0.03	
1965-096A		A-1	2088	US	19 NOV	100.0	59.7	826	686	0.09	
1965-096B			1778	FRANCE	26 NOV	107.5	34.3	1698	527	0.32	
1965-096D			1805	FRANCE	26 NOV	106.1	34.3	1566	521	0.32	
1965-098A			1996	FRANCE	26 NOV	100.9	34.2	1106	498	1.18	
1965-098B		ALOUETTE 2	1804	CANADA	29 NOV	118.3	79.8	2707	499	0.01	
1965-098C		EXPLORER 31	1806	US	29 NOV	120.0	79.8	2857	502	0.68	
1965-098D			1807	US	29 NOV	118.8	79.8	2753	501	0.68	
1965-098E			1808	US	29 NOV	118.8	79.8	2753	501	4.51	
1965-098F			1944	US	29 NOV	104.9	79.8	1505	470	0.98	
1965-098G			1948	US	29 NOV	103.5	79.7	1382	464	1.09	
1965-098H			1951	US	29 NOV	113.0	79.9	2232	496	0.18	
1965-098J			2092	US	29 NOV	113.1	79.7	2248	490	0.15	
1965-101A		FR-1	2153	US	29 NOV	118.5	79.9	2723	501	0.16	
1965-101B			1814	FRANCE	06 DEC	118.2	79.7	2696	501	0.13	
			1815	US	06 DEC	98.8	75.9	707	696	0.75	
						98.5	75.9	692	682	1.63	

		OBJECTS IN ORBIT									
INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOTNOTES
1965-105A		PIONEER 6 COSMOS 100	1841	US	16 DEC	HELIOCENTRIC ORBIT					
1965-106A			1843	USSR	17 DEC		95.0	65.0	548	485	9.07
1965-106B			1844	USSR	17 DEC		93.9	65.0	476	451	29.07
1965-109A			1864	US	22 DEC		104.6	89.1	1060	891	0.29
1965-109B			1865	US	22 DEC		104.7	89.1	1066	895	0.81
1965-109C		NASS 30060	2086	US	22 DEC	100.2	89.1	787	750	0.05	
1965-109D			2226	US	22 DEC	106.8	89.1	1268	886	0.10	
1965-109E			2353	US	22 DEC	104.9	89.4	1104	873	0.05	
1965-1120			1937	USSR	28 DEC	93.9	55.9	479	451	0.34	
1966 LAUNCHES											
1966-005A		NASS 30070	1952	US	28 JAN	105.5	89.9	1183	849	3.00	
1966-005B			1953	US	28 JAN	105.6	89.9	1193	851	1.18	
1966-005C			2140	US	28 JAN	107.1	90.1	1342	846	0.04	
1966-005D			2141	US	28 JAN	103.3	89.9	1014	813	0.05	
1966-005E			2889	US	28 JAN	109.4	89.5	1327	1067	0.08	
1966-005F		1966-005J	2989	US	28 JAN	103.5	89.9	1012	835	0.04	
1966-005J			11991	US	28 JAN	105.0	89.9	1144	842	0.27	
1966-006D			2001	USSR	31 JAN	BARYCENTRIC ORBIT					
1966-008A		ESSA 1	1982	US	03 FEB	99.7	97.8	805	684	1.70	
1966-008B			1983	US	03 FEB	99.2	97.8	784	660	0.54	
1966-008C			2085	US	03 FEB	96.5	97.6	605	574	0.04	
1966-008D		D-1A	2118	US	03 FEB	100.3	98.0	879	667	0.06	
1966-008E			2154	US	03 FEB	99.1	97.8	759	669	0.01	
1966-013A			2016	FRANCE	17 FEB	115.8	34.1	2485	501	1.70	
1966-013B		ESSA 2	2017	FRANCE	17 FEB	114.5	34.1	2359	499	1.05	
1966-013G			2161	FRANCE	17 FEB	107.4	34.1	1717	501	0.06	
1966-016A			2091	US	28 FEB	113.4	101.0	1412	1352	0.71	
1966-016B		NASS 30080	2096	US	28 FEB	113.4	101.1	1412	1350	0.76	
1966-016C			2223	US	28 FEB	111.8	101.0	1381	1238	0.05	
1966-016D			2224	US	28 FEB	115.0	101.0	1562	1345	0.12	
1966-016E		OV1-4 OV1-5	6214	US	28 FEB	114.2	101.8	1509	1328	0.07	
1966-024A			2119	US	26 MAR	104.9	89.7	1099	879	2.74	
1966-024B			2120	US	26 MAR	105.0	89.8	1107	882	0.55	
1966-025A		LUNA 10	2121	US	30 MAR	104.0	144.5	1008	884	0.50	
1966-025B			2122	US	30 MAR	105.6	144.6	1056	985	0.98	
1966-025C			2123	US	30 MAR	105.6	144.6	1056	986	1.56	
1966-025D		1966-025G	2124	US	30 MAR	104.0	144.5	1005	885	1.36	
1966-025E			3611	US	30 MAR	102.0	144.6	900	807	0.01	
1966-025F			5361	US	30 MAR	103.6	144.6	965	888	0.01	
1966-025H		1966-026A	5599	US	30 MAR	102.1	144.6	900	819	0.71	
1966-026A			2125	US	31 MAR	99.4	98.3	855	604	0.73	
1966-026B			2129	US	31 MAR	97.0	98.1	682	543	0.99	
1966-026D		1966-027A	2177	US	31 MAR	100.0	99.0	921	591	0.08	
1966-027E			2126	USSR	31 MAR	SELENOCENTRIC ORBIT					
1966-027D			2130	USSR	31 MAR	HELIOCENTRIC ORBIT					
1966-027F		OAO 1 OV3-1	2131	USSR	31 MAR	BARYCENTRIC ORBIT					
1966-031A			2132	USSR	31 MAR	BARYCENTRIC ORBIT					
1966-031B			2142	US	08 APR	100.6	35.0	794	782	9.47	
1966-034A		OV3-1	2144	US	08 APR	100.2	35.0	776	762	5.58	
1966-034B			2150	US	22 APR	132.0	82.4	4079	339	1.18	
1966-034C			2167	US	22 APR	109.1	82.3	2053	319	1.02	

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DESIGNATION

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# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1966-087A	ESSA 3	2435	US	02 OCT	114.5	101.0	1483	1384	0.95	
1966-087B		2436	US	02 OCT	114.5	100.9	1482	1381	0.51	
1966-087C		2518	US	02 OCT	115.8	100.9	1557	1429	0.11	
1966-087D		2775	US	02 OCT	113.2	100.9	1470	1277	0.10	
1966-087E		6213	US	02 OCT	112.4	102.0	1363	1313	0.02	
1966-087F	SECOR (EGRS) 8	8791	US	02 OCT	114.2	101.8	1534	1307	0.02	
1966-089A		2481	US	05 OCT	167.5	90.0	3721	3656	43.61	
1966-089B		2520	US	05 OCT	167.6	90.0	3707	3674	0.15	
1966-094A		2508	USSR	22 OCT	SELENOCENTRIC ORBIT					
1966-095B		2513	US	25 OCT	BARYOCENTRIC ORBIT					
1966-096A	INTELSAT 2 F-1	2514	ITSO	26 OCT	718.7	17.3	37070	3327	0.10	
1966-096C		11792	US	26 OCT	453.8	17.9	25935	430	0.79	
1966-110A		2608	US	07 DEC	1434.7	14.5	35794	35723	7.90	
1966-111A		2610	US	11 DEC	139.9	99.1	4627	471	0.93	
1966-111B		2611	US	11 DEC	96.1	93.4	603	541	1.61	
1966-111C	ATS 1 OV1-9 OV1-10	2621	US	11 DEC	97.8	93.4	702	604	1.14	
1966-111D		2622	US	11 DEC	139.1	99.1	4558	473	1.86	

## 1967 LAUNCHES

1967-001A	INTELSAT 2 F-2 TO 001AU	2639	ITSO	11 JAN	NO CURRENT ELEMENTS					
1967-001B		2645	US	11 JAN	SEE NOTE					
1967-003A		2649	US	18 JAN	NO CURRENT ELEMENTS					
1967-003B		2650	US	18 JAN	NO CURRENT ELEMENTS					
1967-003C		2651	US	18 JAN	NO CURRENT ELEMENTS					
1967-003D		2652	US	18 JAN	NO CURRENT ELEMENTS					
1967-003E		2653	US	18 JAN	NO CURRENT ELEMENTS					
1967-003F		2654	US	18 JAN	NO CURRENT ELEMENTS					
1967-003G		2655	US	18 JAN	NO CURRENT ELEMENTS					
1967-003H		2660	US	18 JAN	NO CURRENT ELEMENTS					
1967-006A	ESSA 4	2657	US	26 JAN	113.4	102.0	1437	1323	1.13	
1967-006B		2661	US	26 JAN	113.5	102.1	1438	1338	0.59	
1967-006C		2706	US	26 JAN	114.2	102.2	1446	1390	0.09	
1967-006D		2707	US	26 JAN	112.5	101.8	1457	1229	0.14	
1967-006E		5971	US	26 JAN	113.1	101.9	1453	1280	0.04	
1967-010A	DIADEME 1	2669	US	08 FEB	101.1	99.1	846	771	0.70	
1967-010B		2741	US	08 FEB	101.0	99.1	847	766	3.03	
1967-011A		2674	FRANCE	08 FEB	101.2	40.0	1085	545	0.66	
1967-011B		2671	FRANCE	08 FEB	102.2	40.0	1174	555	1.58	
1967-014A		2680	FRANCE	15 FEB	108.5	39.4	1733	584	0.76	
1967-014B	DIADEME 2	2682	FRANCE	15 FEB	109.0	39.5	1782	582	0.85	
1967-014C		2684	FRANCE	15 FEB	106.2	40.0	1528	570	0.07	
1967-014F		2685	FRANCE	15 FEB	105.2	39.0	1448	561	0.10	
1967-014J		14505	FRANCE	15 FEB	104.0	38.8	1352	546	0.02	
1967-014M		18911	FRANCE	15 FEB	108.1	38.9	1713	559	0.03	
1967-014N	INTELSAT 2 F-3	18928	FRANCE	15 FEB	93.9	39.4	533	392	0.01	
1967-026A		2717	ITSO	23 MAR	1434.7	14.1	35882	35637	10.00	
1967-027Z		18270	US	03 APR	111.3	90.3	1308	1262	0.02	
1967-034A		2754	US	14 APR	106.2	90.1	1064	1037	2.03	
1967-034B		2755	US	14 APR	106.4	90.1	1072	1043	0.35	
1967-034C	NNSS 30120	2777	US	14 APR	103.2	90.3	1011	809	0.06	
1967-034D		2778	US	14 APR	108.1	90.1	1235	1045	0.04	

## OBJECTS IN ORBIT

INTER-

NATIONAL  
DESIGNATION

NAME

CATALOG  
NUMBER

SOURCE

LAUNCH

PERIOD  
MINUTESINCLI-  
NATIONAPOGEE  
(KM)PERIGEE  
(KM)RCS  
(SQ.M) FOOT-  
NOTES

1967-034E	4843	US	14 APR	106.6	90.4	1091	1047	0.02	
1967-034H	22172	US	14 APR	105.8	90.1	1071	993	0.03	
1967-035B	2764	US	17 APR	BARYCENTRIC ORBIT					
1967-036A	2757	US	20 APR	113.5	102.0	1419	1352	0.86	
1967-036B	2758	US	20 APR	113.5	101.9	1417	1354	0.54	
1967-036C	2976	US	20 APR	112.3	102.1	1408	1256	0.10	
1967-036D	2977	US	20 APR	114.5	101.5	1481	1388	0.07	
1967-040A	2765	US	28 APR	NO CURRENT ELEMENTS					
1967-040B	2766	US	28 APR	NO CURRENT ELEMENTS					
1967-040C	2767	US	28 APR	NO CURRENT ELEMENTS					
1967-040D	2768	US	28 APR	NO CURRENT ELEMENTS					
1967-040E	2769	US	28 APR	NO CURRENT ELEMENTS					
1967-040F	2770	US	28 APR	NO CURRENT ELEMENTS					
1967-045A	2801	USSR	15 MAY	100.3	74.0	811	729	4.85	
1967-045B	2802	USSR	15 MAY	100.0	74.0	810	707	6.51	
1967-048A	2807	US	18 MAY	106.7	89.6	1089	1059	1.65	
1967-048B	2811	US	18 MAY	106.8	89.6	1091	1062	0.73	
1967-053A	2826	US	31 MAY	101.4	69.9	834	815	0.39	
1967-053B	2825	US	31 MAY	103.1	70.0	910	904	7.43	
1967-053C	2828	US	31 MAY	103.1	70.0	910	903	1.53	
1967-053D	2834	US	31 MAY	103.2	70.0	913	906	1.13	
1967-053E	2847	US	31 MAY	102.9	70.0	900	894	0.27	
1967-053F	2872	US	31 MAY	103.1	70.0	906	900	1.13	
1967-053G	2873	US	31 MAY	103.1	70.0	909	902	0.98	
1967-053H	2874	US	31 MAY	103.2	70.0	912	905	0.92	
1967-053J	2909	US	31 MAY	101.1	70.0	816	805	0.06	
1967-053K	19245	US	31 MAY	102.5	70.0	880	876	0.50	
1967-060A	2845	US	14 JUN	HELIOCENTRIC ORBIT					
1967-060B	2846	US	14 JUN	HELIOCENTRIC ORBIT					
1967-065A	2861	US	29 JUN	172.1	90.1	3946	3792	0.33	
1967-065B	2876	US	29 JUN	172.1	90.1	3946	3793	0.59	
1967-065C	2877	US	29 JUN	172.1	90.1	3948	3790	0.89	
1967-066A	2862	US	01 JUL	1309.7	11.5	33538	33010	0.31	
1967-066B	2863	US	01 JUL	NO CURRENT ELEMENTS					
1967-066C	2864	US	01 JUL	1311.7	11.5	33558	33071	0.10	
1967-066D	2865	US	01 JUL	1313.6	11.6	33588	33119	0.60	
1967-066E	2866	US	01 JUL	1316.1	11.6	33618	33188	0.20	
1967-066F	2867	US	01 JUL	1319.1	11.6	33677	33251	0.10	
1967-066G	2868	US	01 JUL	1319.1	11.6	33676	33253	1.50	
1967-068B	2883	US	14 JUL	BARYCENTRIC ORBIT					
1967-070A	2884	US	19 JUL	SELENOCENTRIC ORBIT					
1967-075B	2908	US	01 AUG	BARYCENTRIC ORBIT					
1967-080A	2920	US	23 AUG	101.9	98.9	873	818	0.57	
1967-080B	2940	US	23 AUG	101.8	98.8	870	815	2.99	
1967-084B	2938	US	08 SEP	BARYCENTRIC ORBIT					
1967-092A	2965	US	25 SEP	106.5	89.3	1099	1029	2.66	
1967-092B	2967	US	25 SEP	106.5	89.3	1099	1032	0.63	
1967-092C	2994	US	25 SEP	103.7	89.4	1003	859	0.05	
1967-092D	3122	US	25 SEP	108.8	89.1	1315	1029	0.05	
1967-094A	2969	ITSO	28 SEP	1435.2	14.5	35834	35703	0.60	
1967-094C	2971	US	28 SEP	NO CURRENT ELEMENTS					
1967-096A	2980	US	11 OCT	99.1	99.2	796	638	1.07	
1967-096B	2985	US	11 OCT	99.0	99.1	784	634	2.95	

INTER- NATIONAL DESIGNATION		OBJECTS IN ORBIT									
NAME		CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES	
1967-104B	ATS 3	3019	USSR	27 OCT	95.4	64.1	665	408	7.72		
1967-111A		3029	US	05 NOV	1436.1	14.5	35837	35736	0.10		
1967-112B		3034	US	07 NOV	BARYOCENTRIC ORBIT						
1967-114A		3035	US	10 NOV	114.8	102.2	1482	1406	1.16		
1967-114B		3036	US	10 NOV	114.8	102.2	1483	1408	0.71		
1967-114C	ESSA 6	3051	US	10 NOV	114.1	101.5	1481	1343	0.15		
1967-114D		3123	US	10 NOV	115.4	102.5	1493	1449	0.14		
1967-114E		5443	US	10 NOV	114.6	101.7	1483	1386	0.01		
1967-116A	COSMOS 192	3047	USSR	23 NOV	99.2	74.0	725	716	4.52		
1967-116B		3048	USSR	23 NOV	99.1	74.0	718	707	8.26		
1967-123A		3066	US	13 DEC	HELIOCENTRIC ORBIT						
1967-127A	PIONEER 8	3081	USSR	27 DEC	103.4	65.1	927	907	3.35		
COSMOS 198											
1968 LAUNCHES											
1968-001B	EXPLORER 36	3092	US	07 JAN	BARYOCENTRIC ORBIT						
1968-002A		3093	US	11 JAN	112.2	105.8	1572	1079	2.40		
1968-002B		3094	US	11 JAN	112.1	105.8	1564	1077	0.98		
1968-002C		3126	US	11 JAN	112.3	106.1	1581	1081	0.05		
1968-002D		3127	US	11 JAN	112.1	105.3	1568	1075	0.06		
1968-011A	COSMOS 203	3129	USSR	20 FEB	109.2	74.1	1199	1180	4.98		
1968-011A		3131	USSR	20 FEB	109.2	74.1	1201	1180	8.06		
1968-011B		3133	US	02 MAR	106.7	90.0	1129	1013	3.31		
1968-012A	NNSS 30180	3137	US	02 MAR	106.7	90.0	1132	1017	0.63		
1968-012B		3213	US	02 MAR	104.6	90.0	1078	874	0.06		
1968-012C		3214	US	02 MAR	108.6	90.1	1304	1015	0.04		
1968-013A	ZOND 4	3134	USSR	02 MAR	HELIOCENTRIC ORBIT						
1968-014A		3138	US	04 MAR	NO CURRENT ELEMENTS						
1968-014B		3145	US	04 MAR	NO CURRENT ELEMENTS						
1968-014B	COSMOS 209	3158	USSR	22 MAR	103.0	65.3	924	879	2.49		
1968-023A		3173	US	06 APR	198.7	99.9	9245	560	1.20		
1968-026A		3174	US	06 APR	207.1	100.0	9880	552	0.95		
1968-026B		3177	US	06 APR	206.9	100.0	9875	546	1.35		
1968-026C		3212	US	06 APR	198.3	99.9	9208	564	1.56		
1968-026D	LUNA 14	3178	USSR	07 APR	SELENOCENTRIC ORBIT						
1968-027A		3229	USSR	07 MAY	98.1	74.0	700	637	6.92		
1968-040A		3230	USSR	07 MAY	97.8	74.0	682	621	7.05		
1968-040B		3266	US	23 MAY	101.8	98.9	883	806	0.85		
1968-042A		3271	US	23 MAY	101.8	98.8	880	804	1.07		
1968-042B	COSMOS 220	3284	US	13 JUN	1335.2	11.9	33850	33725	1.00		
1968-050A		3285	US	13 JUN	NO CURRENT ELEMENTS						
1968-050B		3286	US	13 JUN	NO CURRENT ELEMENTS						
1968-050C		3287	US	13 JUN	NO CURRENT ELEMENTS						
1968-050D		3288	US	13 JUN	NO CURRENT ELEMENTS						
1968-050E	EXPLORER 38	3289	US	13 JUN	NO CURRENT ELEMENTS						
1968-050F		3290	US	13 JUN	NO CURRENT ELEMENTS						
1968-050G		3290	US	13 JUN	NO CURRENT ELEMENTS						
1968-050H		3291	US	13 JUN	NO CURRENT ELEMENTS						
1968-050I		3292	US	13 JUN	1363.7	12.5	35026	33688	0.31		
1968-050J	EXPLORER 38	3307	US	04 JUL	224.3	120.9	5862	5835	35.64		
1968-055A		3315	US	04 JUL	155.7	120.7	5730	686	0.94		
1968-055B		3848	US	04 JUL	224.1	120.9	5861	5826	0.50		
1968-055C		4841	US	04 JUL	155.3	120.8	5741	640	0.05		
1968-055D					NO ELEMENTS AVAILABLE						
1968-063A		3334	US	06 AUG	NO ELEMENTS AVAILABLE						

## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1968-066B	EXPLORER 40	3338	US	08 AUG	117.9	80.7	2494	677	1.60	
1968-066C		3341	US	08 AUG	117.7	80.7	2479	679	1.03	
1968-066D		3342	US	08 AUG	106.7	80.6	1526	622	0.01	
1968-066E		3343	US	08 AUG	102.0	80.5	1131	578	0.09	
1968-066F		3390	US	08 AUG	107.8	80.6	1605	647	0.09	
1968-066G		3391	US	08 AUG	106.6	80.7	1534	604	0.07	
1968-066H		3392	US	08 AUG	110.7	80.7	1850	667	0.06	
1968-066J		3393	US	08 AUG	108.4	80.6	1660	646	0.07	
1968-069A	ESSA 7	3345	US	16 AUG	114.9	101.4	1471	1428	0.74	
1968-069B		3346	US	16 AUG	113.8	101.4	1464	1426	5.64	
1968-069C		3416	US	16 AUG	113.6	101.9	1485	1299	0.08	
1968-069D		3417	US	16 AUG	116.1	102.2	1557	1454	0.11	
1968-069E		3974	US	16 AUG	114.9	102.2	1477	1422	0.07	
1968-069F		3975	US	16 AUG	114.8	101.4	1482	1414	0.07	
1968-069G		4499	US	16 AUG	115.1	101.4	1480	1435	0.01	
1968-081A	OV2-5	3428	US	26 SEP	1417.9	12.6	35774	35084	0.31	
1968-081C	ERS 21	3430	US	26 SEP	1437.3	13.0	35846	35772	2.20	
1968-081D	LES 6	3431	US	26 SEP	1418.5	12.6	35844	35037	1.10	
1968-081E		3432	US	26 SEP	111.4	62.3	2094	492	9.70	
1968-091A	COSMOS 249	3504	USSR	20 OCT	111.4	62.3	2094	492	9.70	
1968-091B	TO 091DQ		USSR	20 OCT	SEE NOTE		9*		9*	
1968-092A		3510	US	23 OCT	101.0	98.7	829	783	0.93	
1968-092B		3522	US	23 OCT	100.9	98.8	823	778	2.36	
1968-097A	COSMOS 252	3530	USSR	01 NOV	112.0	62.3	2104	534	3.66	
1968-097B	TO 097EU		USSR	01 NOV	SEE NOTE		10*		10*	
1968-100A	PIONEER 9	3533	US	08 NOV	109.3	74.0	1220	1170	2.74	
1968-106A	COSMOS 256	3576	USSR	30 NOV	109.2	74.0	1214	1162	6.29	
1968-106B		3577	USSR	07 DEC	99.9	35.0	758	749	12.22	
1968-110A	DAO-A2	3597	US	07 DEC	99.6	35.0	776	698	28.52	
1968-110B		3598	US	07 DEC	114.3	80.4	1465	1379	0.44	
1968-112B		3605	US	12 DEC	114.3	80.2	1445	1371	0.09	
1968-112C		3617	US	12 DEC	114.0	80.2	1445	1372	0.10	
1968-112D		3618	US	12 DEC	114.7	80.5	1507	1402	0.08	
1968-112E		3618	US	12 DEC	114.4	80.6	1454	1402	0.08	
1968-114A	ESSA 8	3615	US	15 DEC	114.6	101.8	1461	1411	1.23	
1968-114B		3616	US	15 DEC	115.0	101.9	1467	1446	6.80	
1968-114C		3811	US	15 DEC	112.8	101.9	1462	1248	0.07	
1968-114D		3812	US	15 DEC	116.3	102.3	1571	1458	0.08	
1968-116A	INTELSAT 3 F-2	3623	ITSO	19 DEC	1475.2	15.1	37111	35984	1.20	
1968-118B		3627	US	21 DEC	HELIOCENTRIC ORBIT					
1969 LAUNCHES										
1969-009A	ISIS 1	3669	CANADA	30 JAN	127.7	88.4	3470	574	2.25	
1969-009B		3670	US	30 JAN	126.6	88.4	3375	573	0.77	
1969-010B		3673	US	05 FEB	114.0	80.4	1428	1391	0.70	
1969-010C		3841	US	05 FEB	113.7	80.2	1421	1368	0.80	
1969-011A	INTELSAT 3 F-3	3674	ITSO	06 FEB	NO CURRENT ELEMENTS					
1969-011B		5977	US	06 FEB	457.9	29.8	26321	277	0.10	
1969-013A		3691	US	09 FEB	NO CURRENT ELEMENTS					
1969-013B		3692	US	09 FEB	NO CURRENT ELEMENTS					
1969-014A	MARINER 6	3759	US	25 FEB	HELIOCENTRIC ORBIT					
1969-014B		3760	US	25 FEB	HELIOCENTRIC ORBIT					

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1969-016A	ESSA 9	3764	US	26 FEB	115.2	101.4	1503	1423	1.26	
1969-016B		3767	US	26 FEB	115.1	101.4	1497	1417	0.61	
1969-018B		3770	US	03 MAR	HELIOCENTRIC ORBIT					
1969-024A	COSMOS 272	3818	USSR	17 MAR	109.2	74.0	1205	1177	4.29	
1969-024B		3819	USSR	17 MAR	109.1	74.0	1193	1178	7.85	
1969-024C		6289	USSR	17 MAR	108.8	74.0	1180	1161	0.16	
1969-025C	OV1-19	3825	US	18 MAR	151.4	104.8	5587	479	1.13	
1969-025E		3827	US	18 MAR	150.3	104.8	5485	486	2.34	
1969-029A	METEOR	3835	USSR	26 MAR	95.9	81.2	576	549	8.31	
1969-030A	MARINER 7	3837	US	27 MAR	HELIOCENTRIC ORBIT					
1969-030B		3845	US	27 MAR	HELIOCENTRIC ORBIT					
1969-036A		3889	US	13 APR	NO ELEMENTS AVAILABLE					
1969-037A	NIMBUS 3	3890	US	14 APR	107.2	100.0	1128	1069	5.61	
1969-037B	SECOR (EGRS) 13	3891	US	14 APR	107.2	100.0	1126	1067	0.41	
1969-037C		3892	US	14 APR	107.3	100.0	1131	1072	5.66	
1969-043B		3943	US	18 MAY	HELIOCENTRIC ORBIT					
1969-043C	LM/DESCENT	3948	US	18 MAY	SELENDOCENTRIC ORBIT					
1969-043D	LM/ASCENT	3949	US	18 MAY	HELIOCENTRIC ORBIT					
1969-045A	INTELSAT 3 F-4	3947	ITSD	22 MAY	NO CURRENT ELEMENTS					
1969-046A	DV5-5/ERS-29	3950	US	23 MAY	NO CURRENT ELEMENTS					
1969-046B	DV5-6	3951	US	23 MAY	NO CURRENT ELEMENTS					
1969-046C	DV5-9	3952	US	23 MAY	NO CURRENT ELEMENTS					
1969-046F		3956	US	23 MAY	NO CURRENT ELEMENTS					
1969-053B		3993	US	21 JUN	NO CURRENT ELEMENTS					
1969-059B		4040	US	16 JUL	HELIOCENTRIC ORBIT					
1969-059C	LUNAR MODULE	4041	US	16 JUL	SELENDOCENTRIC ORBIT					
1969-062A		4047	US	23 JUL	100.9	98.8	835	768	0.81	
1969-062B		4048	US	23 JUL	100.8	98.7	829	765	1.66	
1969-064C		4053	US	26 JUL	121.8	30.3	3256	263	0.99	
1969-069A	ATS 5	4068	US	12 AUG	1447.4	14.3	36035	35981	0.60	
1969-069B		4069	US	12 AUG	703.3	17.0	37347	2290	3.10	
1969-069D		21052	US	12 AUG	1466.8	14.5	36947	35821	0.10	
1969-070A	COSMOS 292	4070	USSR	13 AUG	99.3	74.1	733	719	2.63	
1969-070B		4071	USSR	13 AUG	99.0	74.1	720	696	6.37	
1969-070C		4084	USSR	13 AUG	99.7	74.1	759	727	0.34	
1969-070D		18912	USSR	13 AUG	98.2	74.0	704	643	0.00	
1969-082B		4256	US	30 SEP	103.1	70.0	918	893	0.91	
1969-082C		4257	US	30 SEP	103.2	70.0	925	898	1.79	
1969-082D		4259	US	30 SEP	103.3	70.0	930	896	1.12	
1969-082E		4237	US	30 SEP	103.3	70.0	925	899	1.38	
1969-082F		4247	US	30 SEP	103.2	70.0	925	898	1.49	
1969-082G		4295	US	30 SEP	103.3	70.0	926	899	0.51	
1969-082H		4168	US	30 SEP	103.2	70.0	924	899	0.13	
1969-082J		4166	US	30 SEP	100.9	70.0	812	791	0.46	
1969-082K		4132	US	30 SEP	102.1	70.0	870	844	0.21	
1969-082L	TO 082LF		US	30 SEP	SEE NOTE					
1969-082LF		19581	US	30 SEP	99.4	70.1	763	698	0.01	
1969-084A	METEOR	4119	USSR	06 OCT	95.3	81.2	551	514	19.34	
1969-084B		4120	USSR	06 OCT	93.7	81.2	491	422	17.86	
1969-091A	COSMOS 304	4138	USSR	21 OCT	99.6	74.0	748	731	3.38	
1969-091B		4139	USSR	21 OCT	98.9	74.0	710	702	18.51	
1969-097A	GRS-A/AZUR	4221	FRG	08 NOV	110.5	102.7	2128	373	0.57	
1969-097B		4222	US	08 NOV	99.8	102.8	1153	347	0.90	

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# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLT- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1969-099B		4226	US	14 NOV	NO CURRENT ELEMENTS					
1969-101A	SKYNET A	4250	UK	22 NOV	1436.2	13.8	35893	35682	1.20	
1969-101B		4251	US	22 NOV	NO CURRENT ELEMENTS					
1969-103A	COSMOS 312	4254	USSR	24 NOV	108.5	74.0	1174	1138	6.73	
1969-103B		4255	USSR	24 NOV	108.3	74.0	1156	1138	7.84	
1970 LAUNCHES										
1970-003A	INTELSAT 3 F-6	4297	ITSO	15 JAN	NO CURRENT ELEMENTS					
1970-003B		4298	US	15 JAN	519.0	28.2	29705	322	0.10	
1970-008A	ITOS 1	4320	US	23 JAN	115.0	101.3	1477	1431	6.22	
1970-008B	OSCAR 5	4321	AUSTRL	23 JAN	115.0	101.4	1476	1431	0.55	
1970-008C		4322	US	23 JAN	115.0	101.4	1477	1432	7.29	
1970-009A	SERT 2	4327	US	04 FEB	106.0	99.3	1044	1037	9.54	
1970-011A	DHSUMI	4330	JAPAN	11 FEB	113.4	31.0	2442	323	0.44	
1970-012A		4331	US	11 FEB	100.8	98.9	840	749	1.03	
1970-012B		4332	US	11 FEB	100.8	99.0	843	751	2.48	
1970-021A	NATO 1	4353	NATO	20 MAR	1436.0	13.4	35802	35767	2.00	
1970-021B		4354	US	20 MAR	517.0	25.4	29613	307	0.10	
1970-021C		5975	US	20 MAR	535.6	25.4	30603	334	0.10	
1970-025A	NIMBUS 4	4362	US	08 APR	107.1	99.9	1097	1085	9.59	
1970-025B	TOPD 1	4363	US	08 APR	106.9	99.8	1085	1081	0.30	
1970-025C	TO 0250P				SEE NOTE					
1970-028A	COSMOS 332	4369	USSR	08 APR	99.4	74.0	736	727	4.82	12*
1970-028B		4370	USSR	11 APR	99.1	74.0	726	702	10.44	
1970-028C		14814	USSR	11 APR	98.3	74.0	685	670	0.02	
1970-032A	INTELSAT 3 F-7	4376	ITSO	23 APR	NO CURRENT ELEMENTS					
1970-032B		4377	US	23 APR	NO CURRENT ELEMENTS					
1970-034A	MAO 1	4382	PRC	24 APR	111.6	68.4	2162	434	1.11	
1970-034B		4392	PRC	24 APR	100.0	68.4	1105	408	4.36	
1970-036A	COSMOS 336	4383	USSR	25 APR	115.4	74.0	1484	1460	0.80	
1970-036B	COSMOS 337	4384	USSR	25 APR	116.2	74.0	1550	1466	0.96	
1970-036C	COSMOS 338	4385	USSR	25 APR	115.8	74.0	1515	1466	0.76	
1970-036D	COSMOS 339	4386	USSR	25 APR	115.0	74.0	1466	1443	0.61	
1970-036E	COSMOS 340	4387	USSR	25 APR	114.6	74.0	1468	1405	0.65	
1970-036F	COSMOS 341	4388	USSR	25 APR	113.9	74.0	1466	1341	0.93	
1970-036G	COSMOS 342	4389	USSR	25 APR	114.2	74.0	1466	1308	0.62	
1970-036H	COSMOS 343	4390	USSR	25 APR	116.6	74.0	1586	1465	7.65	
1970-036J		4391	USSR	25 APR	95.8	81.2	579	534	8.33	
1970-037A	METEOR	4393	USSR	28 APR	96.5	81.2	661	523	11.45	
1970-037B		4394	USSR	28 APR	NO ELEMENTS AVAILABLE					
1970-046A		4418	US	19 JUN	NO ELEMENTS AVAILABLE					
1970-046B		4511	US	19 JUN	NO ELEMENTS AVAILABLE					
1970-047A	METEOR	4419	USSR	23 JUN	101.8	81.2	873	814	4.22	
1970-047B		4420	USSR	23 JUN	102.0	81.2	920	789	7.75	
1970-055A	INTELSAT 3 F-8	4478	ITSO	23 JUL	1408.2	14.1	36626	33849	1.50	
1970-055B		4486	US	23 JUL	NO CURRENT ELEMENTS					
1970-062A	SKYNET B	4493	UK	19 AUG	NO CURRENT ELEMENTS					
1970-067A		4507	US	27 AUG	106.7	90.0	1202	944	3.20	
1970-067B		4515	US	27 AUG	106.8	90.0	1206	946	0.32	
1970-067C		5036	US	27 AUG	102.7	90.1	906	870	0.06	
1970-067D		5447	US	27 AUG	109.1	90.0	1429	940	0.05	
1970-069A		4510	US	01 SEP	NO ELEMENTS AVAILABLE					

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1970-070A		4512	US	03 SEP	100.6	99.0	837	739	1.44	
1970-070B		4513	US	03 SEP	100.7	99.0	842	741	2.42	
1970-079A	COSMOS 367	4564	USSR	03 OCT	104.5	65.3	1022	915	2.63	
1970-083A	COSMOS 371	4578	USSR	12 OCT	99.3	74.0	728	722	2.69	
1970-083B		4579	USSR	12 OCT	99.0	74.0	720	703	7.84	
1970-085A	METEOR	4583	USSR	15 OCT	93.4	81.2	443	442	7.20	
1970-085B		4584	USSR	15 OCT	94.5	81.2	534	451	13.76	
1970-086A	COSMOS 372	4588	USSR	16 OCT	100.4	74.1	787	767	6.23	
1970-086B		4589	USSR	16 OCT	100.1	74.1	781	749	8.95	
1970-086C		5357	USSR	16 OCT	98.2	74.0	676	665	0.01	
1970-086D		5358	USSR	16 OCT	99.1	74.0	718	708	0.01	
1970-089A	COSMOS 374	4594	USSR	23 OCT	106.7	63.0	1648	496	0.10	
1970-089B	TO 089Dg		USSR	23 OCT	SEE NOTE		13*			13*
1970-091A	COSMOS 375	4598	USSR	30 OCT	111.3	62.8	1995	577	5.42	
1970-091B	TO 091AX		USSR	30 OCT	SEE NOTE		14*			14*
1970-093A		4630	US	06 NOV	1197.9	16.4	36128	25839	0.60	
1970-093B		4632	US	06 NOV	1197.8	16.5	36160	25802	1.50	
1970-102A	COSMOS 381	4783	USSR	02 DEC	104.8	74.0	1005	960	7.68	
1970-102B		4784	USSR	02 DEC	104.6	74.0	996	957	8.20	
1970-102C		5225	USSR	02 DEC	104.0	74.0	959	933	0.03	
1970-102E		8764	USSR	02 DEC	104.2	74.0	971	938	0.03	
1970-102F		9794	USSR	02 DEC	98.0	74.0	671	657	0.03	
1970-103A	COSMOS 382	4786	USSR	02 DEC	171.0	55.9	5269	2384	27.89	
1970-103B		4789	USSR	02 DEC	158.8	51.6	5086	1585	0.92	
1970-103C		4790	USSR	02 DEC	159.1	51.6	5088	1609	0.72	
1970-103G		12854	USSR	02 DEC	145.1	50.3	3277	2262	0.29	
1970-106A	NDAA 1	4793	US	11 DEC	114.8	101.3	1470	1421	2.05	
1970-106B		4794	US	11 DEC	114.9	101.3	1477	1420	6.57	
1970-106C		8828	USSR	12 DEC	116.3	102.4	1539	1493	0.09	
1970-108A	COSMOS 385	4799	USSR	12 DEC	104.6	74.0	978	972	4.22	
1970-108B		4800	USSR	12 DEC	104.5	74.0	975	963	6.70	
1970-109B		4802	FRANCE	12 DEC	96.1	15.0	596	542	1.30	
1970-113A	COSMOS 389	4813	USSR	18 DEC	95.8	81.2	568	543	21.81	
1970-113B		4814	USSR	18 DEC	96.4	81.2	630	544	10.39	
1971 LAUNCHES										
1971-003A	METEOR	4849	USSR	20 JAN	95.5	81.2	550	539	6.41	
1971-003B		4850	USSR	20 JAN	95.3	81.2	577	484	4.95	
1971-003C		18277	USSR	20 JAN	93.0	81.2	440	402	0.04	
1971-006A	INTELSAT 4 F-2	4881	ITSD	26 JAN	1456.9	13.2	36246	36140	1.20	
1971-006B		4882	US	26 JAN	653.3	27.5	36515	610	25.10	
1971-009A	NATO 2	4902	NATO	03 FEB	1436.1	13.9	35802	35772	2.00	
1971-009B		4903	US	03 FEB	NO CURRENT ELEMENTS					
1971-009D		5986	US	03 FEB	NO CURRENT ELEMENTS					
1971-010A	COSMOS 394	4922	USSR	09 FEB	95.4	65.8	551	523	1.84	
1971-011A	TANSEI 1	4952	JAPAN	16 FEB	106.1	29.7	1106	986	0.66	
1971-011B		5126	JAPAN	16 FEB	104.8	29.7	993	975	0.88	
1971-012A		4953	US	17 FEB	100.2	98.7	799	741	0.54	
1971-012B		4954	US	17 FEB	100.3	98.7	802	747	2.60	
1971-015A	COSMOS 397	4964	USSR	25 FEB	113.2	65.7	2178	563	7.74	
1971-015B	TO 015DV		USSR	25 FEB	SEE NOTE		15*			15*
1971-016A	COSMOS 398	4966	USSR	26 FEB	106.7	51.5	1964	186	10.90	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1971-020A	COSMOS 400	5050	USSR	18 MAR	104.9	65.8	999	983	2.38	
1971-020B		5051	USSR	18 MAR	104.7	65.8	1014	947	11.95	
1971-020C		5052	USSR	18 MAR	104.9	65.8	997	980	0.81	
1971-021A		5053	US	21 MAR	NO ELEMENTS AVAILABLE					
1971-021B		5054	US	21 MAR	NO ELEMENTS AVAILABLE					
1971-024A	ISIS 2	5104	CANADA	01 APR	113.5	88.2	1423	1353	1.99	
1971-024B		5106	US	01 APR	113.5	88.2	1419	1350	1.44	
1971-024C		5360	US	01 APR	113.5	88.3	1422	1355	0.04	
1971-025A	COSMOS 402	5105	USSR	01 APR	104.9	65.0	1011	965	5.71	
1971-028A	COSMOS 405	5117	USSR	07 APR	96.7	81.2	603	594	10.07	
1971-028B		5118	USSR	07 APR	96.9	81.2	657	561	12.21	
1971-028D		5724	USSR	07 APR	95.8	81.2	556	554	0.42	
1971-031B		5143	USSR	17 APR	94.4	81.2	522	458	14.76	
1971-035A	COSMOS 407	5174	USSR	23 APR	100.6	74.0	800	773	4.53	
1971-035B		5175	USSR	23 APR	100.4	74.0	799	752	7.49	
1971-035C		5300	USSR	23 APR	99.3	74.0	735	717	0.01	
1971-035D		5301	USSR	23 APR	99.8	74.0	759	736	0.01	
1971-038A	COSMOS 409	5180	USSR	28 APR	109.2	74.0	1209	1173	4.13	
1971-038B		5181	USSR	28 APR	109.0	74.0	1223	1139	10.16	
1971-039A		5204	US	05 MAY	NO ELEMENTS AVAILABLE					
1971-039B		5205	US	05 MAY	NO ELEMENTS AVAILABLE					
1971-041A	COSMOS 411	5210	USSR	07 MAY	113.8	74.0	1488	1313	0.88	
1971-041B	COSMOS 412	5211	USSR	07 MAY	116.1	74.0	1533	1477	0.22	
1971-041C	COSMOS 413	5212	USSR	07 MAY	115.7	74.0	1505	1471	0.75	
1971-041D	COSMOS 414	5213	USSR	07 MAY	115.1	74.0	1492	1424	0.85	
1971-041E	COSMOS 415	5214	USSR	07 MAY	115.4	74.0	1497	1449	0.90	
1971-041F	COSMOS 416	5215	USSR	07 MAY	114.4	74.0	1489	1369	0.72	
1971-041G	COSMOS 417	5216	USSR	07 MAY	114.1	74.0	1489	1341	0.72	
1971-041H	COSMOS 418	5217	USSR	07 MAY	114.7	74.0	1491	1396	1.03	
1971-041J		5218	USSR	07 MAY	116.8	74.0	1590	1486	10.38	
1971-045A	MARS 2	5234	USSR	19 MAY	MARS ORBIT					
1971-046A	COSMOS 422	5238	USSR	22 MAY	104.9	74.0	1002	980	2.52	
1971-046B		5239	USSR	22 MAY	104.8	74.0	994	977	1.97	
1971-049A	MARS 3	5252	USSR	28 MAY	MARS ORBIT					
1971-051A	MARINER 9	5261	US	30 MAY	MARS ORBIT					
1971-051B		5267	US	30 MAY	MARS ORBIT					
1971-052A	COSMOS 426	5281	USSR	04 JUN	99.4	74.0	1108	354	3.41	
1971-052B		5282	USSR	04 JUN	100.5	74.0	1208	356	15.09	
1971-059B		5328	USSR	16 JUL	94.7	81.2	539	468	13.30	
1971-063D	APOLLO 15	5377	US	26 JUL	SELENOCENTRIC ORBIT					
1971-067B	OV1-21	5397	US	07 AUG	101.7	87.6	899	774	3.18	
1971-067E		5398	US	07 AUG	101.0	87.6	856	756	0.78	
1971-067J		5405	US	07 AUG	95.8	87.6	574	543	0.09	
1971-067K		5395	US	07 AUG	100.9	87.6	849	752	0.80	
1971-067L		5399	US	07 AUG	96.3	87.6	595	569	0.14	
1971-067M		5400	US	07 AUG	95.9	87.6	575	550	0.09	
1971-067N		5384	US	07 AUG	101.4	87.6	882	762	0.29	
1971-069C		5426	USSR	12 AUG	99.5	49.6	814	656	0.11	
1971-071A	EOLE 1	5435	FRANCE	16 AUG	99.7	50.1	836	651	1.89	
1971-071B		5438	US	16 AUG	99.6	50.2	830	647	1.07	
1971-071C		5440	US	16 AUG	96.3	50.7	625	539	0.04	
1971-073B		5449	USSR	02 SEP	SELENOCENTRIC ORBIT					
1971-080A	SHINSEI	5485	JAPAN	28 SEP	113.1	32.0	1866	872	1.22	

		OBJECTS IN ORBIT									
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES	
1971-080B	LUNA 19	5498	JAPAN	28 SEP	111.9	32.0	1756	869	0.82		
1971-082A		5488	USSR	28 SEP	SELENCENTRIC ORBIT						
1971-082C		5490	USSR	28 SEP	SELENCENTRIC ORBIT						
1971-086A		5547	USSR	13 OCT	114.1	74.0	1506	1318	0.96		
1971-086B		5548	USSR	13 OCT	114.4	74.0	1509	1348	0.89		
1971-086C		5549	USSR	13 OCT	114.8	74.0	1509	1379	0.76		
1971-086D		5550	USSR	13 OCT	115.1	74.0	1512	1408	0.74		
1971-086E		5551	USSR	13 OCT	115.5	74.0	1515	1437	0.66		
1971-086F		5552	USSR	13 OCT	116.2	74.0	1539	1481	0.86		
1971-086G		5553	USSR	13 OCT	115.8	74.0	1527	1460	1.11		
1971-086H	COSMOS 449	5554	USSR	13 OCT	116.6	74.0	1571	1486	0.97		
1971-086J	COSMOS 450	5555	USSR	13 OCT	117.3	74.0	1620	1501	15.97		
1971-087A	PROSPERO	5557	US	14 OCT	101.1	99.1	850	772	2.64		
1971-087B		5556	US	14 OCT	101.3	99.2	867	774	1.81		
1971-089A		5560	US	17 OCT	99.8	92.7	761	738	16.83		
1971-093A		5580	UK	28 OCT	104.4	82.0	1403	531	1.19		
1971-093B		5581	UK	28 OCT	104.5	82.0	1412	531	0.99		
1971-095A		5587	US	03 NOV	1436.3	13.8	35814	35765	1.20		
1971-095B		5588	US	03 NOV	1437.9	13.6	35824	35819	0.60		
1971-095C		5589	US	03 NOV	1481.7	14.4	37359	35989	1.20		
1971-099A		COSMOS 457	5614	USSR	20 NOV	109.4	74.0	1216	1180	5.78	
1971-099B		5615	USSR	20 NOV	109.3	74.0	1209	1175	6.86		
1971-110A	COSMOS 465	5678	US	14 DEC	NO ELEMENTS AVAILABLE						
1971-110B		5679	US	14 DEC	NO ELEMENTS AVAILABLE						
1971-110C		5680	US	14 DEC	NO ELEMENTS AVAILABLE						
1971-110D		5681	US	14 DEC	NO ELEMENTS AVAILABLE						
1971-110E		5682	US	14 DEC	NO ELEMENTS AVAILABLE						
1971-111A		5683	USSR	15 DEC	104.8	74.0	1004	964	9.74		
1971-111B		5685	USSR	15 DEC	104.6	74.0	994	958	14.93		
1971-114A		COSMOS 468	5705	USSR	17 DEC	100.4	74.0	789	768	5.17	
1971-114B		5707	USSR	17 DEC	100.3	74.0	790	754	10.53		
1971-114C		5778	USSR	17 DEC	99.6	74.0	750	731	0.00		
1971-114D	INTELSAT 4 F-3	5858	USSR	17 DEC	99.5	74.0	742	727	0.01		
1971-116A		5709	ITSD	20 DEC	1445.5	11.1	36009	35930	2.00		
1971-117A		COSMOS 469	5721	USSR	25 DEC	104.6	64.5	1006	949	6.90	
1971-119A		OREDL 1	5729	USSR	27 DEC	108.8	74.0	1954	389	3.75	
1971-119B		5730	USSR	27 DEC	108.0	73.9	1884	386	11.90		
1971-120A		METEOR	5731	USSR	29 DEC	102.5	81.3	912	836	12.78	
1971-120B		5732	USSR	29 DEC	102.0	81.3	871	838	6.48		
1971-120C		8826	USSR	29 DEC	100.8	81.2	808	781	1.36		
1971-120D		8827	USSR	29 DEC	101.9	81.3	857	839	0.14		
1971-120F		15344	USSR	29 DEC	96.8	81.2	614	592	0.02		
1972 LAUNCHES											
1972-003A	INTELSAT 4 F-4	5775	ITSD	23 JAN	1442.4	10.4	35915	35903	0.20		
1972-003B		5816	US	23 JAN	652.9	27.6	36518	584	2.50		
1972-007B		5836	USSR	14 FEB	SELENCENTRIC ORBIT						
1972-009A		5846	USSR	25 FEB	104.6	74.0	993	961	8.61		
1972-009B		5847	USSR	25 FEB	104.4	74.1	988	945	8.65		
1972-010A		5851	US	01 MAR	NO ELEMENTS AVAILABLE						
1972-010B		5854	US	01 MAR	NO ELEMENTS AVAILABLE						
1972-011B		5853	USSR	01 MAR	92.5	81.2	412	381	7.80		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1972-012A	PIONEER 10	5860	US	03 MAR	HELIOCENTRIC ORBIT					
1972-012B		5861	US	03 MAR	HELIOCENTRIC ORBIT					
1972-018A		5903	US	24 MAR	101.3	98.9	858	781	1.92	
1972-019A	COSMOS 480	5904	US	24 MAR	101.3	98.9	853	783	1.94	
1972-019B		5905	USSR	25 MAR	109.1	83.0	1196	1170	5.78	
1972-022A		5907	USSR	25 MAR	108.9	83.0	1190	1160	7.51	
1972-022B	METEOR	5917	USSR	30 MAR	102.3	81.2	877	854	1.84	
1972-023E		5918	USSR	30 MAR	102.5	81.2	917	832	12.41	
1972-029A		6073	USSR	31 MAR	155.4	52.1	6180	212	1.15	
1972-031C	PROGN0Z	5941	USSR	14 APR	NO CURRENT ELEMENTS					
1972-035A	LUNAR MODULE	6005	US	16 APR	NO CURRENT ELEMENTS					
1972-035B	COSMOS 489	6019	USSR	06 MAY	SELENDCENTRIC ORBIT					2*
1972-041A		6020	USSR	06 MAY	104.7	74.0	997	959	2.62	
1972-041B	INTELSAT 4 F-5	6052	ITSD	06 MAY	104.5	74.0	985	953	7.26	
1972-043A		6058	US	13 JUN	1438.3	11.3	35847	35811	1.00	
1972-043B	COSMOS 494	6059	USSR	23 JUN	650.0	26.7	36400	555	2.00	
1972-043C		6061	USSR	23 JUN	100.4	74.1	786	772	2.93	
1972-043D		6063	USSR	23 JUN	100.2	74.1	783	750	9.38	
1972-049A		6065	USSR	23 JUN	99.3	74.1	731	719	0.02	
1972-049B	METEOR	6079	USSR	23 JUN	99.6	74.1	752	727	0.01	
1972-049C		6080	USSR	30 JUN	102.7	81.2	893	876	9.81	
1972-057A		20348	USSR	30 JUN	102.8	81.2	927	855	13.26	
1972-057B	COSMOS 504	6117	USSR	20 JUL	113.9	74.0	1494	854	6.77	
1972-057C	COSMOS 505	6118	USSR	20 JUL	114.3	74.0	1494	1350	0.59	
1972-057D	COSMOS 506	6119	USSR	20 JUL	114.6	74.0	1493	1380	0.62	
1972-057E	COSMOS 507	6120	USSR	20 JUL	114.9	74.0	1494	1409	0.73	
1972-057F	COSMOS 508	6121	USSR	20 JUL	115.3	74.0	1494	1440	0.24	
1972-057G	COSMOS 509	6122	USSR	20 JUL	115.6	74.0	1496	1471	0.61	
1972-057H	COSMOS 510	6123	USSR	20 JUL	116.0	74.0	1507	1493	0.97	
1972-057J	COSMOS 511	6124	USSR	20 JUL	116.4	74.0	1543	1493	15.83	
1972-058A		6125	USSR	20 JUL	117.0	74.0	1599	1490	5.36	
1972-058B	LANDSAT 1	6126	US	23 JUL	103.0	99.4	908	895		
1972-062A	TO 058JL				SEE NOTE					16*
1972-062B	COSMOS 514	6148	USSR	16 AUG	104.2	83.0	965	950	3.50	
1972-062C		6149	USSR	16 AUG	104.1	83.0	961	946	6.22	
1972-062D		6277	USSR	16 AUG	104.1	82.9	955	946	0.35	
1972-065A	COPERNICUS	7560	USSR	16 AUG	102.7	83.0	938	835	0.03	
1972-065B		6153	US	21 AUG	99.2	35.0	724	713	27.08	
1972-066A	COSMOS 516	6155	US	21 AUG	98.7	35.0	729	664	8.87	
1972-069A	TRIAD 01-1X	6173	USSR	21 AUG	104.5	64.8	1037	906	5.19	
1972-069B		6180	US	02 SEP	99.4	90.0	793	708	1.29	
1972-069C		6250	US	02 SEP	97.7	89.7	684	691	1.21	
1972-072A	COSMOS 520	6192	USSR	19 SEP	715.1	68.8	36096	612	0.05	
1972-072E		6302	USSR	19 SEP	706.7	68.4	35850	4126	1.20	
1972-073A	EXPLORER 47	6197	US	23 SEP	NO CURRENT ELEMENTS					
1972-074A	COSMOS 521	6206	USSR	29 SEP	104.9	65.8	992	987	2.49	
1972-074B		6207	USSR	29 SEP	104.7	65.8	997	964	9.76	
1972-074C		6210	USSR	29 SEP	104.9	65.8	993	983	0.46	
1972-076A		6212	US	02 OCT	97.4	98.6	638	627	1.44	
1972-076B		6217	US	02 OCT	98.7	98.7	705	688	2.44	
1972-076C		6218	US	02 OCT	99.1	98.5	724	707	7.78	
1972-076D		6221	US	02 OCT	96.7	98.6	607	596	2.02	

OBJECTS IN ORBIT										
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1972-079C	NOAA 2 AMSAT-OSCAR 6	6822	US	10 OCT	114.7	95.7	1462	1417	0.14	
1972-079D		6823	US	10 OCT	114.7	95.8	1484	1403	0.10	
1972-079E		6824	US	10 OCT	114.6	95.5	1442	1431	0.10	
1972-082A		6235	US	15 OCT	114.9	102.0	1453	1446	2.77	
1972-082B		6236	US	15 OCT	114.9	102.0	1452	1446	0.40	
1972-082C		6237	US	15 OCT	109.2	102.8	1464	914	3.49	
1972-085A	METEOR	6256	USSR	26 OCT	102.3	81.2	880	851	0.63	
1972-085B		6257	USSR	26 OCT	102.4	81.3	915	830	4.93	
1972-087A		6262	USSR	01 NOV	114.1	74.0	1465	1364	0.65	
1972-087B		6264	USSR	01 NOV	114.5	74.0	1466	1399	0.65	
1972-087C		6265	USSR	01 NOV	113.7	74.0	1465	1331	0.89	
1972-087D		6266	USSR	01 NOV	114.7	74.0	1467	1418	0.23	
1972-087E		6267	USSR	01 NOV	113.4	74.0	1466	1297	0.08	
1972-087F		6268	USSR	01 NOV	113.6	74.0	1466	1314	0.82	
1972-087G		6269	USSR	01 NOV	113.9	74.0	1465	1347	0.85	
1972-087H		6270	USSR	01 NOV	114.3	74.0	1466	1381	0.77	
1972-087J		6271	USSR	01 NOV	116.6	74.0	1591	1464	10.89	
1972-089A	ANIK A1 NIMBUS 5	6275	US	09 NOV	101.1	98.6	841	785	1.90	
1972-089A		6276	US	09 NOV	101.4	98.7	853	798	0.67	
1972-089B		6278	CANADA	10 NOV	1457.1	11.3	36247	36145	1.20	
1972-090A		6305	US	11 DEC	107.1	99.8	1099	1086	6.70	
1972-097A		6306	US	11 DEC	111.7	99.8	1514	1098	5.39	
1972-097B	COSMOS 539	6317	US	20 DEC	NO CURRENT ELEMENTS					
1972-101A		6318	US	20 DEC	NO CURRENT ELEMENTS					
1972-101B		6319	USSR	21 DEC	112.9	74.0	1377	1340	6.32	
1972-102A		6320	USSR	21 DEC	112.7	74.0	1371	1333	8.31	
1972-102B		6323	USSR	25 DEC	100.4	74.1	790	763	3.86	
1972-104A		6324	USSR	25 DEC	100.0	74.1	767	751	8.96	
1972-104B	COSMOS 540	6391	USSR	25 DEC	98.7	74.1	701	688	0.01	
1972-104C		6391	USSR	25 DEC	98.7	74.1	701	688	0.01	
1972-104D		6396	USSR	25 DEC	98.6	74.0	698	680	0.01	
1973 LAUNCHES										
1973-005A	COSMOS 546 PROGNOZ 3	6350	USSR	26 JAN	95.7	50.7	564	537	2.72	
1973-009A		6364	USSR	15 FEB	NO CURRENT ELEMENTS					
1973-013A		6380	US	06 MAR	NO ELEMENTS AVAILABLE					
1973-015A	METEOR	6392	USSR	20 MAR	102.3	81.2	878	861	8.18	
1973-015B		6393	USSR	20 MAR	102.5	81.3	920	834	1.64	
1973-019A		6421	US	06 APR	HELIOCENTRIC ORBIT					
1973-019B	PIONEER 11	6425	US	06 APR	HELIOCENTRIC ORBIT					
1973-023A		6437	CANADA	20 APR	1443.0	10.2	35967	35876	1.00	
1973-034A		6659	USSR	29 MAY	102.2	81.2	880	842	12.42	
1973-034A		6660	USSR	29 MAY	102.5	81.2	910	840	10.50	
1973-034B		6675	USSR	08 JUN	114.6	74.0	1479	1392	0.82	
1973-037A		6676	USSR	08 JUN	115.3	74.0	1487	1447	0.82	
1973-037B		6677	USSR	08 JUN	115.0	74.0	1480	1431	1.04	
1973-037C		6678	USSR	08 JUN	114.8	74.0	1481	1410	0.66	
1973-037D		6679	USSR	08 JUN	114.4	74.0	1478	1373	0.78	
1973-037E		6680	USSR	08 JUN	114.1	74.0	1477	1355	0.59	
1973-037F		6681	USSR	08 JUN	113.9	74.0	1478	1335	0.91	
1973-037G	COSMOS 570 COSMOS 571	6682	USSR	08 JUN	113.7	74.0	1476	1317	0.69	
1973-037H		6683	USSR	08 JUN	116.8	74.0	1594	1481	8.55	
1973-037J		6683	USSR	08 JUN	116.8	74.0	1594	1481	8.55	
1973-039A	EXPLORER 49	6686	US	10 JUN	SELENOCENTRIC ORBIT					

## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1973-039D		6689	US	10 JUN	NO CURRENT ELEMENTS					
1973-039F		6725	US	10 JUN	SELENOCENTRIC ORBIT					
1973-039G		6726	US	10 JUN	SELENOCENTRIC ORBIT					
1973-040A		6691	US	12 JUN	NO ELEMENTS AVAILABLE					
1973-040B		11940	US	12 JUN	NO ELEMENTS AVAILABLE					
1973-042A	COSMOS 574	6707	USSR	20 JUN	104.9	83.0	1008	974	3.49	
1973-042B		6708	USSR	20 JUN	104.8	83.0	995	976	6.73	
1973-047A		6742	USSR	21 JUL	HELIOCENTRIC ORBIT					
1973-049A	MARS 4	6754	USSR	25 JUL	MARS ORBIT					
1973-052A	MARS 5	6768	USSR	05 AUG	MARS ORBIT					
1973-053A	MARS 6	6776	USSR	09 AUG	MARS ORBIT					
1973-053D	MARS 7	7224	USSR	09 AUG	MARS ORBIT					
1973-054A	CAPSULE	6787	US	17 AUG	HELIOCENTRIC ORBIT					
1973-054B		6788	US	17 AUG	100.9	98.9	819	779	2.01	
1973-056A		6791	US	21 AUG	101.1	98.9	831	789	2.34	
1973-056B		6792	US	21 AUG	NO ELEMENTS AVAILABLE					
1973-058A	INTELSAT 4 F-7	6796	ITSD	23 AUG	1452.5	10.4	36162	36049	1.00	
1973-058B		6797	US	23 AUG	651.9	27.1	36586	464	25.86	
1973-064A	COSMOS 585	6825	USSR	08 SEP	113.5	74.0	1402	1372	3.43	
1973-064B		6826	USSR	08 SEP	113.4	74.0	1403	1372	6.37	
1973-065A		6828	USSR	14 SEP	104.7	82.9	1000	960	3.99	
1973-065B	COSMOS 586	6829	USSR	14 SEP	104.6	82.9	992	956	6.68	
1973-069A		6845	USSR	02 OCT	115.3	74.0	1491	1445	0.76	
1973-069B	COSMOS 588	6846	USSR	02 OCT	114.9	74.0	1486	1412	1.03	
1973-069C	COSMOS 589	6847	USSR	02 OCT	115.1	74.0	1485	1431	0.84	
1973-069D	COSMOS 590	6848	USSR	02 OCT	114.1	74.0	1484	1344	0.84	
1973-069E	COSMOS 591	6849	USSR	02 OCT	113.9	74.0	1483	1327	0.93	
1973-069F	COSMOS 592	6850	USSR	02 OCT	114.3	74.0	1483	1361	0.88	
1973-069G	COSMOS 593	6851	USSR	02 OCT	114.5	74.0	1483	1378	0.72	
1973-069H	COSMOS 594	6852	USSR	02 OCT	114.7	74.0	1483	1397	0.76	
1973-069J	COSMOS 595	6853	USSR	02 OCT	117.1	74.0	1619	1483	11.33	
1973-078A	EXPLORER 50	6893	US	26 OCT	NO CURRENT ELEMENTS					
1973-078C		6895	US	26 OCT	95.2	28.8	741	315	10.09	
1973-078D		6896	US	26 OCT	NO CURRENT ELEMENTS					
1973-081A	NNSS 30200	6909	US	30 OCT	105.2	89.8	1123	884	2.06	
1973-081B		6910	US	30 OCT	105.3	89.8	1127	885	0.63	
1973-081C		15764	US	30 OCT	105.7	90.5	1168	889	0.08	
1973-084A	COSMOS 606	6916	USSR	02 NOV	717.7	69.0	36940	3410	0.70	
1973-084D		6939	USSR	02 NOV	706.5	67.1	37225	2572	0.90	
1973-085A	MARINER 10	6919	US	03 NOV	HELIOCENTRIC ORBIT					
1973-086A	NDAA 3	6920	US	06 NOV	116.1	102.2	1508	1499	5.54	
1973-086B	TO 086HF		US	06 NOV	SEE NOTE	17*				17*
1973-088D		6938	US	10 NOV	114.5	96.9	1453	1413	0.63	
1973-088E		7359	US	10 NOV	114.6	96.8	1475	1401	0.08	
1973-098A	COSMOS 614	6965	USSR	04 DEC	100.2	74.1	787	751	4.30	
1973-098B		6966	USSR	04 DEC	100.1	74.1	777	743	9.69	
1973-098C		6967	USSR	04 DEC	98.3	74.1	687	664	0.02	
1973-098D		9569	USSR	04 DEC	99.4	74.1	740	715	0.02	
1973-100A		6973	US	13 DEC	1474.6	13.9	36661	36413	0.50	
1973-100B		6974	US	13 DEC	1462.2	13.5	36308	36284	0.10	
1973-100C		6976	US	13 DEC	1515.0	14.5	38520	36113	1.00	
1973-104A	COSMOS 617	6985	USSR	19 DEC	113.9	74.0	1481	1332	0.84	
1973-104B	COSMOS 618	6986	USSR	19 DEC	115.2	74.0	1485	1441	0.68	

INTER-  
NATIONAL  
DESIGNATION

OBJECTS IN ORBIT

NAME

CATALOG  
NUMBER

SOURCE

LAUNCH

PERIOD  
MINUTES

INCLI-  
NATION

APOGEE  
(KM)

PERIGEE  
(KM)

RCS  
(SQ.M)

FOOT-  
NOTES

1973-104C COSMOS 619 6987 USSR 19 DEC 115.0 74.0 1486 1421 0.73  
 1973-104D COSMOS 620 6988 USSR 19 DEC 115.4 74.0 1491 1457 0.55  
 1973-104E COSMOS 621 6989 USSR 19 DEC 114.7 74.0 1483 1403 0.66  
 1973-104F COSMOS 622 6990 USSR 19 DEC 114.3 74.0 1482 1367 0.30  
 1973-104G COSMOS 623 6991 USSR 19 DEC 114.5 74.0 1482 1385 0.75  
 1973-104H COSMOS 624 6992 USSR 19 DEC 114.1 74.0 1482 1349 0.60  
 1973-104J COSMOS 625 6993 USSR 19 DEC 117.0 74.0 1619 1474 10.41  
 1973-107A OREOL 2 7003 USSR 26 DEC 103.3 74.0 1442 387 4.40  
 1973-107B COSMOS 626 7004 USSR 26 DEC 102.6 74.0 1385 377 11.20  
 1973-108A COSMOS 627 7005 USSR 27 DEC 103.9 65.4 982 907 5.97  
 1973-109A COSMOS 627 7008 USSR 29 DEC 104.9 83.0 982 965 2.91  
 1973-109B COSMOS 627 7009 USSR 29 DEC 104.6 83.0 990 959 5.99

1974 LAUNCHES

1974-001A COSMOS 628 7094 USSR 17 JAN 104.7 83.0 1007 950 5.23  
 1974-001B COSMOS 628 7095 USSR 17 JAN 104.5 83.0 999 941 6.77  
 1974-011A METEOR 7209 USSR 05 MAR 101.9 81.2 877 821 10.70  
 1974-011B METEOR 7210 USSR 05 MAR 102.0 81.2 910 792 8.13  
 1974-013A UK-X4 7213 UK 09 MAR 100.3 97.9 866 677 0.45  
 1974-013B UK-X4 7228 US 09 MAR 100.3 97.9 861 687 1.34  
 1974-015A 7218 US 16 MAR 100.9 99.1 846 757 1.80  
 1974-015B 7219 US 16 MAR 101.2 99.1 863 765 2.02  
 1974-017A COSMOS 637 7229 USSR 26 MAR 1428.9 13.5 35813 35478 0.70  
 1974-017F COSMOS 637 7229 USSR 26 MAR 1428.9 13.5 35813 35478 0.70  
 1974-020B 11567 USSR 10 APR 1425.6 13.5 36083 35078 2.00  
 1974-022A WESTAR 1 7244 US 13 APR 1441.6 9.9 35917 35871 1.00  
 1974-024A COSMOS 641 7250 USSR 23 APR 114.5 74.0 1479 1385 0.69  
 1974-024B COSMOS 642 7266 USSR 23 APR 113.7 74.0 1478 1316 0.76  
 1974-024C COSMOS 643 7267 USSR 23 APR 114.1 74.0 1480 1349 0.92  
 1974-024D COSMOS 644 7268 USSR 23 APR 113.9 74.0 1480 1332 0.83  
 1974-024E COSMOS 645 7269 USSR 23 APR 114.3 74.0 1480 1366 0.85  
 1974-024F COSMOS 646 7270 USSR 23 APR 114.7 74.0 1482 1402 0.69  
 1974-024G COSMOS 647 7271 USSR 23 APR 114.9 74.0 1481 1420 0.70  
 1974-024H COSMOS 647 7272 USSR 23 APR 115.1 74.0 1487 1435 0.67  
 1974-024J COSMOS 648 7273 USSR 23 APR 117.0 74.0 1605 1484 12.52  
 1974-025A METEOR 7274 USSR 24 APR 102.3 81.2 881 852 6.87  
 1974-025B 7275 USSR 24 APR 102.4 81.2 913 831 8.30  
 1974-026A MOLNIYA 2-9 7276 USSR 26 APR 640.6 62.4 35750 724 0.70  
 1974-026E COSMOS 650 7277 USSR 26 APR 640.6 62.4 35750 724 0.70  
 1974-028A COSMOS 651 7281 USSR 29 APR 699.2 62.3 38493 940 0.70  
 1974-028B COSMOS 651 7284 USSR 29 APR 113.4 74.0 1399 1365 2.11  
 1974-029A COSMOS 651 7291 USSR 15 MAY 103.2 74.0 1387 1361 9.00  
 1974-032A COSMOS 654 7297 USSR 15 MAY 103.4 65.0 946 890 3.37  
 1974-033A SMS 1 7298 US 17 MAY 104.4 65.0 1007 924 1.33  
 1974-037A LUNA 22 7315 USSR 29 MAY 1460.3 15.5 36303 36216 0.50  
 1974-039A ATS 6 7318 US 30 MAY 1412.1 13.1 35444 35185 630.90  
 1974-039C COSMOS 660 7324 US 30 MAY 1430.5 13.3 35849 35506 10.00  
 1974-044A COSMOS 660 7337 USSR 18 JUN 104.3 83.0 1536 384 3.01  
 1974-044B COSMOS 663 7338 USSR 18 JUN 104.4 83.0 1269 381 12.36  
 1974-048A COSMOS 663 7349 USSR 27 JUN 104.7 83.0 997 961 3.73  
 1974-048B COSMOS 663 7350 USSR 27 JUN 104.5 82.9 984 960 4.52  
 1974-050C COSMOS 663 7354 USSR 29 JUN 682.6 62.5 38557 46 6.15



INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT									
	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT-NOTES	
1974-052A	METEOR	7363	USSR	09 JUL	102.9	81.2	908	882	8.90		
1974-052B		7364	USSR	09 JUL	102.5	81.2	907	843	12.91		
1974-054A		7369	US	14 JUL	468.7	125.1	13774	13446	3.10		
1974-054C		8599	US	14 JUL	468.8	125.1	13779	13442	0.00		
1974-056A	MOLNIYA 2-10	7376	USSR	23 JUL	717.3	62.5	39993	340	0.30		
1974-056D		7382	USSR	23 JUL	731.8	61.9	40742	301	0.70		
1974-060A	MOLNIYA 1-S	7392	USSR	29 JUL	1435.1	13.8	35808	35726	0.14		
1974-060F		20836	USSR	29 JUL	1436.7	13.9	35879	35718	0.31		
1974-063A		7411	US	09 AUG	101.1	98.8	844	779	1.86		
1974-063B		7412	US	09 AUG	101.3	98.8	854	786	2.44		
1974-066B		7418	USSR	16 AUG	93.5	81.2	461	432	9.82		
1974-066C		8424	USSR	16 AUG	91.2	81.2	337	325	1.50		
1974-069A	COSMOS 675	7424	USSR	29 AUG	113.6	74.1	1421	1362	8.01		
1974-069B		7426	USSR	29 AUG	113.5	74.1	1420	1351	14.73		
1974-071A	COSMOS 676	7433	USSR	11 SEP	100.6	74.0	799	779	4.47		
1974-071B		7434	USSR	11 SEP	100.4	74.1	795	764	7.47		
1974-071C		8756	USSR	11 SEP	99.5	74.1	741	729	0.03		
1974-071D		8829	USSR	11 SEP	100.1	74.1	778	750	0.01		
1974-072A	COSMOS 677	7435	USSR	19 SEP	114.4	74.0	1464	1394	0.99		
1974-072B	COSMOS 678	7436	USSR	19 SEP	115.9	74.0	1530	1463	0.63		
1974-072C	COSMOS 679	7437	USSR	19 SEP	115.7	74.0	1509	1463	0.61		
1974-072D	COSMOS 680	7438	USSR	19 SEP	115.5	74.0	1489	1464	0.86		
1974-072E	COSMOS 681	7439	USSR	19 SEP	115.3	74.0	1470	1463	0.81		
1974-072F	COSMOS 682	7440	USSR	19 SEP	115.0	74.0	1465	1450	0.58		
1974-072G	COSMOS 683	7441	USSR	19 SEP	114.8	74.0	1464	1431	0.78		
1974-072H	COSMOS 684	7442	USSR	19 SEP	114.6	74.0	1465	1413	0.74		
1974-072J		7443	USSR	19 SEP	117.7	74.0	1463	1472	8.56		
1974-075A	WESTAR 2	7466	US	10 OCT	1442.0	9.5	35910	35895	6.30		
1974-075C		7468	US	10 OCT	121.4	24.3	3297	185	2.12		
1974-079A	COSMOS 689	7476	USSR	18 OCT	104.9	82.9	1012	970	2.43		
1974-079B		7477	USSR	18 OCT	104.8	82.9	1008	960	16.22		
1974-083A	METEOR	7490	USSR	28 OCT	102.2	81.2	888	835	5.91		
1974-083B		7493	USSR	28 OCT	102.3	81.2	902	834	9.27		
1974-083C		15521	USSR	28 OCT	102.3	81.2	901	832	0.01		
1974-089A	NOAA 4	7529	US	15 NOV	114.9	101.9	1457	1442	8.71		
1974-089B	AMSAT-OSCAR 7	7530	US	15 NOV	114.8	101.9	1457	1437	1.11		
1974-089C	INTASAT	7531	SPAIN	15 NOV	114.8	101.9	1457	1439	0.39		
1974-089D	TO 089FG		US	15 NOV	SEE NOTE		18*			18*	
1974-093A	INTELSAT 4 F-8	7544	ITSD	21 NOV	1443.2	8.8	35944	35907	68.20		
1974-093B		7545	US	21 NOV	652.4	26.0	36488	590	1.50		
1974-094A	SKYNET 2B	7547	UK	23 NOV	1436.9	12.2	35822	35782	1.70		
1974-097A	HELIOS 1	7567	FRG	10 DEC	HELIOCENTRIC ORBIT						
1974-097B		7568	US	10 DEC	NO CURRENT ELEMENTS						
1974-097C		7569	US	10 DEC	HELIOCENTRIC ORBIT						
1974-097D	METEOR	7570	FRG	10 DEC	HELIOCENTRIC ORBIT						
1974-099A		7574	USSR	17 DEC	102.1	81.2	869	844	6.06		
1974-099B		7575	USSR	17 DEC	102.1	81.2	895	819	9.08		
1974-101A	SYMPHONIE-A	7578	FR/FRG	19 DEC	1440.8	12.5	35904	35851	0.10		
1974-101G		9330	US	19 DEC	651.9	12.8	36659	391	0.10		
1974-105A	COSMOS 700	7593	USSR	26 DEC	104.6	83.0	993	956	3.46		
1974-105B		7594	USSR	26 DEC	104.5	82.9	980	957	7.51		

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLT- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1975 LAUNCHES										
1975-004A	LANDSAT 2	7615	US	22 JAN	103.1	98.9	912	898	4.20	19*
1975-004B	TO 004HR				SEE NOTE		19*			
1975-007A	COSMOS 706	7625	USSR	30 JAN	717.5	67.8	35352	4989	1.50	
1975-007D		7629	USSR	30 JAN	716.9	67.6	35985	4327	0.70	
1975-010A	STARLETTE	7646	FRANCE	06 FEB	104.2	49.8	1108	805	0.14	
1975-010B		7647	FRANCE	06 FEB	104.3	49.8	1125	800	0.23	
1975-010C		7654	FRANCE	06 FEB	103.6	49.9	1063	795	0.05	
1975-010D		7655	FRANCE	06 FEB	103.7	49.8	1071	793	0.01	
1975-010E		7659	FRANCE	06 FEB	103.8	49.8	1084	792	0.12	
1975-011A	SMS 2	7648	US	06 FEB	1447.1	12.0	36060	35941	0.10	
1975-011F		20835	US	06 FEB	1460.7	13.6	36673	35859	10.00	
1975-012A	COSMOS 708	7663	USSR	12 FEB	113.5	69.2	1407	1367	3.19	
1975-012B		7665	USSR	12 FEB	113.3	69.2	1396	1362	10.84	
1975-016A	COSMOS 711	7678	USSR	28 FEB	115.4	74.0	1490	1459	0.60	
1975-016B	COSMOS 712	7679	USSR	28 FEB	114.8	74.0	1488	1409	0.72	
1975-016C	COSMOS 713	7680	USSR	28 FEB	114.6	74.0	1484	1393	0.75	
1975-016D	COSMOS 714	7681	USSR	28 FEB	115.2	74.0	1489	1442	0.72	
1975-016E	COSMOS 715	7682	USSR	28 FEB	115.7	74.0	1501	1468	0.77	
1975-016F	COSMOS 716	7683	USSR	28 FEB	115.9	74.0	1511	1477	0.60	
1975-016G	COSMOS 717	7684	USSR	28 FEB	116.1	74.0	1534	1477	0.74	
1975-016H	COSMOS 718	7685	USSR	28 FEB	115.0	74.0	1488	1426	0.88	
1975-016J		7686	USSR	28 FEB	117.9	74.0	1719	1456	9.53	
1975-017A		7687	US	10 MAR	NO ELEMENTS AVAILABLE					
1975-017B	METEOR	7688	US	10 MAR	NO ELEMENTS AVAILABLE					
1975-023A		7714	USSR	01 APR	102.3	81.2	883	853	5.87	
1975-023B		7715	USSR	01 APR	102.4	81.2	909	833	1.54	
1975-024A	COSMOS 723	7718	USSR	02 APR	103.6	64.7	961	899	9.61	
1975-025A	COSMOS 724	7727	USSR	07 APR	102.9	65.6	943	852	7.87	
1975-027A	GEOS 3	7734	US	09 APR	101.6	115.0	850	816	2.08	
1975-027B		7735	US	09 APR	101.2	115.0	851	783	9.44	
1975-027C		10728	US	09 APR	101.4	115.2	865	784	0.10	
1975-027E		10730	US	09 APR	103.5	115.0	996	851	2.55	
1975-028A	COSMOS 726	7736	USSR	11 APR	104.5	83.0	988	951	9.39	
1975-028B		7737	USSR	11 APR	104.3	83.0	976	951	7.59	
1975-029D		7741	USSR	14 APR	726.6	62.3	40651	139	16.31	
1975-034A	COSMOS 729	7768	USSR	22 APR	104.8	83.0	1005	969	2.63	
1975-034B		7769	USSR	22 APR	104.7	83.0	996	968	10.02	
1975-036A	MOLNIYA 1-29	7780	USSR	29 APR	717.8	61.8	39359	996	2.50	
1975-036D		7800	USSR	29 APR	732.4	61.8	40227	843	1.00	
1975-038A	ANIK A3	7790	CANADA	07 MAY	1439.2	9.0	35851	35845	0.70	
1975-038D		7794	US	07 MAY	1379.0	24.4	21677	259	0.20	
1975-042A	INTELSAT 4 F-1	7815	ITSD	22 MAY	1450.8	8.8	36129	36018	12.50	
1975-042B		7902	US	22 MAY	652.9	25.6	36530	575	2.50	
1975-043A		7816	US	24 MAY	NO ELEMENTS AVAILABLE					
1975-043B		7817	US	24 MAY	NO ELEMENTS AVAILABLE					
1975-045A	COSMOS 732	7820	USSR	28 MAY	114.6	74.0	1468	1401	0.89	
1975-045B	COSMOS 733	7822	USSR	28 MAY	116.2	74.0	1551	1468	0.72	
1975-045C	COSMOS 734	7823	USSR	28 MAY	115.0	74.0	1469	1441	1.23	
1975-045D	COSMOS 735	7824	USSR	28 MAY	115.2	74.0	1471	1460	0.67	
1975-045E	COSMOS 736	7825	USSR	28 MAY	115.5	74.0	1484	1467	0.69	

# OBJECTS IN ORBIT

## INTER-NATIONAL DESIGNATION

## NAME

## CATALOG NUMBER

## SOURCE

## LAUNCH

## PERIOD MINUTES

## INCLINATION

## APOGEE (KM)

## PERIGEE (KM)

## RCS (SQ. M) FOOTNOTES

1975-045F	COSMOS 737	7826	USSR	28 MAY	115.9	74.0	1527	1467	0.78	
1975-045G	COSMOS 738	7827	USSR	28 MAY	115.7	74.0	1508	1466	0.82	
1975-045H	COSMOS 739	7828	USSR	28 MAY	114.8	74.0	1470	1420	0.82	
1975-045J		7831	USSR	28 MAY	117.9	74.0	1692	1484	12.64	
1975-049B	SRET 2	7910	FRANCE	05 JUN	NO CURRENT ELEMENTS					
1975-050A	VENERA 9	7915	USSR	08 JUN	VENUS ORBIT					
1975-051C	SSU 1	7937	US	08 JUN	113.5	95.1	1394	1382	0.57	
1975-051E		7938	US	08 JUN	113.2	95.0	1401	1343	0.07	
1975-052A		7939	US	08 JUN	113.9	95.2	1423	1383	0.15	
1975-052B		7924	US	12 JUN	107.4	99.8	1110	1099	5.11	
1975-052JX	NIMBUS 6				SEE NOTE					
1975-054A	TO 052JX				20*					20*
1975-055A	VENERA 10	7947	USSR	14 JUN	VENUS ORBIT					
1975-055B		7963	US	18 JUN	NO ELEMENTS AVAILABLE					
1975-056B		7964	US	18 JUN	NO ELEMENTS AVAILABLE					
1975-063A	MDLNIYA 2-13	7969	USSR	20 JUN	93.9	81.2	482	450	2.18	
1975-063D		8015	USSR	08 JUL	718.6	61.8	39460	935	1.20	
1975-064A		8018	USSR	08 JUL	732.5	61.7	40266	811	0.50	
1975-064B	METEOR 2	8026	USSR	11 JUL	102.2	81.3	876	844	9.31	
1975-064C		8027	USSR	11 JUL	102.3	81.3	908	830	8.15	
1975-064D		8039	USSR	11 JUL	102.2	81.3	874	852	0.04	
1975-072A		8110	USSR	11 JUL	102.1	81.3	880	833	0.01	
1975-072B	COS-B	8062	ESA	09 AUG	NO CURRENT ELEMENTS					
1975-074A	COSMOS 755	8063	US	09 AUG	119.3	89.2	2982	318	11.77	
1975-074B		8072	USSR	14 AUG	104.8	82.9	1006	963	3.86	
1975-075A	VIKING ORBITER 1	8073	USSR	14 AUG	104.7	82.9	993	963	8.17	
1975-075B		8108	US	20 AUG	MARS ORBIT					
1975-075C		8111	US	20 AUG	MARS ORBIT					
1975-077A	SYMPHONIE-B	8128	USSR	22 AUG	94.7	81.2	528	479	13.00	
1975-077B		8132	FR/FRG	27 AUG	1440.4	12.7	35873	35866	0.20	
1975-077C		8133	US	27 AUG	102.4	25.3	1345	397	13.46	
1975-081A	MOLNIYA 2-14	8134	US	27 AUG	636.1	13.0	35863	383	0.20	
1975-081D		8195	USSR	09 SEP	718.1	61.7	39481	887	7.90	
1975-082A	KIKU	8418	USSR	09 SEP	732.4	61.8	40248	826	0.70	
1975-082B		8197	JAPAN	09 SEP	106.0	47.0	1103	975	1.56	
1975-083A	VIKING ORBITER 2	8352	JAPAN	09 SEP	105.9	47.0	1100	973	1.03	
1975-083B		8199	US	09 SEP	MARS ORBIT					
1975-086A	COSMOS 761	8272	US	09 SEP	HELIOCENTRIC ORBIT					
1975-086B		8285	USSR	17 SEP	114.6	74.0	1479	1398	0.64	
1975-086C	COSMOS 762	8286	USSR	17 SEP	115.1	74.0	1482	1435	1.02	
1975-086D	COSMOS 763	8287	USSR	17 SEP	115.8	74.0	1507	1472	0.84	
1975-086E	COSMOS 764	8288	USSR	17 SEP	116.0	74.0	1523	1477	0.73	
1975-086F	COSMOS 765	8289	USSR	17 SEP	116.3	74.0	1548	1476	0.65	
1975-086G	COSMOS 766	8290	USSR	17 SEP	114.9	74.0	1482	1416	1.16	
1975-086H	COSMOS 767	8291	USSR	17 SEP	115.3	74.0	1485	1452	0.73	
1975-086J	COSMOS 768	8292	USSR	17 SEP	115.5	74.0	1489	1469	0.75	
1975-087A	METEOR	8295	USSR	17 SEP	117.8	74.0	1681	1480	10.26	
1975-087B		8293	USSR	18 SEP	102.0	81.3	910	798	8.53	
1975-089A	COSMOS 770	8294	USSR	18 SEP	102.2	81.3	917	812	7.65	
1975-089B		8325	USSR	24 SEP	109.1	83.0	1204	1163	2.20	
1975-091A	INTELSAT 4A F-1	8326	USSR	24 SEP	108.9	83.0	1194	1160	9.79	
1975-091B		8330	ITSD	26 SEP	1441.1	8.9	35910	35860	1.60	
1975-094A	COSMOS 773	8331	US	26 SEP	652.0	22.2	36518	540	2.80	
		8343	USSR	30 SEP	100.5	74.1	789	772	3.96	

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT								
		CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- INATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1975-094B	COSMOS 775	8344	USSR	30 SEP	100.3	74.1	788	753	1.73	
1975-094C		8346	USSR	30 SEP	98.2	74.0	679	662	0.01	
1975-094D		14865	USSR	30 SEP	99.8	74.0	753	748	0.01	
1975-097A		8357	USSR	08 OCT	1435.1	13.6	35812	35721	0.14	
1975-097F	GOES 1	11676	USSR	08 OCT	1438.2	13.6	35922	35734	2.50	
1975-100A		8366	US	16 OCT	1436.1	12.4	35795	35779	0.10	
1975-100C		8368	US	16 OCT	131.7	23.4	4147	247	2.69	
1975-100F		20962	US	16 OCT	1412.7	13.0	36495	34158	10.00	
1975-103A	COSMOS 778	8419	USSR	04 NOV	104.7	83.0	998	966	3.50	
1975-103B		8421	USSR	04 NOV	104.6	83.0	993	958	6.25	
1975-105A		8425	USSR	14 NOV	717.7	61.7	39489	859	5.10	
1975-105D		8462	USSR	14 NOV	733.3	61.7	40300	815	0.70	
1975-112A	COSMOS 783	8458	USSR	28 NOV	100.6	74.1	797	779	2.60	
1975-112B		8459	USSR	28 NOV	100.4	74.1	789	766	8.42	
1975-112C		8757	USSR	28 NOV	99.3	74.0	723	722	0.02	
1975-112D		14801	USSR	28 NOV	100.2	74.1	773	761	0.01	
1975-112E	COSMOS 785	18500	USSR	28 NOV	100.4	74.1	787	764	0.01	
1975-116A		8473	USSR	12 DEC	104.2	65.1	1003	908	6.30	
1975-117A		8476	US	13 DEC	1446.0	8.9	36089	35868	0.30	
1975-118A		RCA SATCOM I	8482	US	14 DEC	NO ELEMENTS AVAILABLE				
1975-118C	MOLNIYA 2-15	8516	US	14 DEC	NO ELEMENTS AVAILABLE					
1975-118D		8517	US	14 DEC	NO CURRENT ELEMENTS					
1975-121A		8492	USSR	17 DEC	416.9	62.8	24113	103	8.63	
1975-122A		PROGNOZ 4	8510	USSR	22 DEC	NO CURRENT ELEMENTS				
1975-123A	RADUGA 1	8513	USSR	22 DEC	1435.9	13.3	35807	35758	0.31	
1975-123D		8546	USSR	22 DEC	380.0	46.2	21555	446	0.50	
1975-123E		8547	USSR	22 DEC	246.0	46.7	13070	181	0.90	
1975-123F		11568	USSR	22 DEC	1432.7	13.2	35775	35665	1.50	
1975-123F	METEOR	11568	USSR	22 DEC	1432.7	13.2	35775	35665	1.50	
1975-124A		8519	USSR	25 DEC	102.1	81.2	868	849	9.12	
1975-124A		8520	USSR	25 DEC	102.2	81.3	886	842	11.38	
1975-124B										
1976 LAUNCHES										
1976-003A	HELIOS 2	8582	FRG	15 JAN	HELIOCENTRIC ORBIT					
1976-003B		8583	US	15 JAN	HELIOCENTRIC ORBIT					
1976-003C		8584	US	15 JAN	HELIOCENTRIC ORBIT					
1976-004A		8585	CANADA	17 JAN	1435.4	12.8	35840	35704	0.50	
1976-005A	COSMOS 789	8591	USSR	20 JAN	104.9	83.0	1011	964	4.79	
1976-005A		8597	USSR	20 JAN	104.7	83.0	1001	962	8.83	
1976-005B		8601	USSR	22 JAN	720.1	62.3	39476	991	1.20	
1976-006A		8601	USSR	22 JAN	695.2	62.1	38296	937	1.00	
1976-006D	MOLNIYA 1-32	8701	USSR	22 JAN	695.2	62.1	38296	937	1.00	
1976-006D		8607	USSR	28 JAN	114.7	74.1	1485	1398	0.73	
1976-008A		8608	USSR	28 JAN	115.1	74.1	1488	1434	0.74	
1976-008B		8609	USSR	28 JAN	114.9	74.1	1488	1415	0.76	
1976-008C	COSMOS 793	8610	USSR	28 JAN	115.3	74.1	1491	1450	0.71	
1976-008D		8611	USSR	28 JAN	115.6	74.1	1495	1465	0.95	
1976-008E		8612	USSR	28 JAN	115.8	74.1	1514	1469	0.95	
1976-008F		8613	USSR	28 JAN	116.0	74.1	1527	1476	0.91	
1976-008G	COSMOS 796	8613	USSR	28 JAN	116.3	74.1	1552	1476	0.84	
1976-008G		8614	USSR	28 JAN	117.9	74.1	1694	1480	5.74	
1976-008H		8615	USSR	28 JAN	117.9	74.1	1694	1480	5.74	
1976-008J		8620	ITSO	29 JAN	1444.6	9.0	35978	35925	5.00	
1976-010A	INTELSAT 4A F-2	8621	US	29 JAN	653.7	21.3	36554	590	15.80	
1976-010B		8621	US	29 JAN	653.7	21.3	36554	590	15.80	
1976-011A	COSMOS 800	8645	USSR	03 FEB	104.9	83.0	1008	975	3.08	

## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1976-011B		8646	USSR	03 FEB	104.8	83.0	990	980	6.93	
1976-014A	COSMOS 803	8688	USSR	12 FEB	95.2	65.8	555	505	1.85	
1976-017A	MARISAT 1	8697	US	19 FEB	1436.0	11.0	35798	35774	3.90	
1976-017C		8702	US	19 FEB	144.6	24.4	5251	247	2.81	
1976-019A	UME	8709	JAPAN	29 FEB	105.0	69.7	1002	989	1.63	
1976-019B		8710	JAPAN	29 FEB	105.1	69.7	1007	991	2.06	
1976-022A	COSMOS 807	8714	USSR	12 MAR	104.6	82.9	1568	384	2.57	
1976-022B		8745	USSR	12 MAR	100.9	82.9	1238	366	11.13	
1976-023A	LES 8	8746	US	15 MAR	1436.8	17.0	36008	35593	0.90	
1976-023B	LES 9	8747	US	15 MAR	1436.1	17.0	35886	35688	1.40	
1976-023C	SOLRAD 11A	8748	US	15 MAR	NO	CURRENT ELEMENTS				
1976-023D	SOLRAD 11B	8749	US	15 MAR	NO	CURRENT ELEMENTS				
1976-023F		8751	US	15 MAR	1465.5	17.5	36987	35734	1.50	
1976-023G		8752	US	15 MAR	NO	CURRENT ELEMENTS				
1976-023H		8753	US	15 MAR	NO	CURRENT ELEMENTS				
1976-023J		8832	US	15 MAR	1465.6	17.5	37008	35715	0.40	
1976-023K		13753	US	15 MAR	1420.9	11.4	35500	35476	2.50	
1976-024B		8755	USSR	16 MAR	93.5	81.2	460	427	7.68	
1976-029A		8774	US	26 MAR	1460.1	8.6	36497	36014	0.40	
1976-032A	RCA SATCOM 11 METEOR	8799	USSR	07 APR	102.0	81.3	881	829	8.20	
1976-032B		8800	USSR	07 APR	102.2	81.2	932	790	13.86	
1976-035A	NATO III-A	8808	NATO	22 APR	1442.4	10.7	36017	35802	0.20	
1976-038A		8818	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038B		8819	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038C	SSU-1	8835	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038D	SSU-2	8836	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038E		8839	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038F		8842	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038G		8843	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038H		8859	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038J	SSU-3	8884	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038K		9796	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-038L		9996	US	30 APR	NO	ELEMENTS AVAILABLE				
1976-039A	LAGEOS	8820	US	04 MAY	225.4	109.8	5945	5837	0.50	
1976-039C		8822	US	04 MAY	225.4	109.9	5942	5836	1.30	
1976-041A	MOLNIYA 3-5	8833	USSR	12 MAY	664.3	62.0	37590	93	26.06	
1976-041D		8844	USSR	12 MAY	710.5	61.9	39885	111	29.39	
1976-042A	COMSTAR 1	8838	US	13 MAY	1442.7	8.7	35921	35909	2.50	
1976-042B		8840	US	13 MAY	648.2	21.8	36230	633	1.50	
1976-043A	METEOR	8845	USSR	15 MAY	102.0	81.3	884	825	4.87	
1976-043B		8846	USSR	15 MAY	102.2	81.2	902	827	11.05	
1976-047A	P 76-5	8860	US	22 MAY	105.4	99.6	1044	981	1.59	
1976-047B		8861	US	22 MAY	105.4	99.5	1046	984	1.33	
1976-047C		8867	US	22 MAY	106.3	99.3	1110	998	0.05	
1976-047D		8868	US	22 MAY	104.5	100.1	1011	934	0.08	
1976-050A		8871	US	02 JUN	NO	ELEMENTS AVAILABLE				
1976-050B		8872	US	02 JUN	NO	ELEMENTS AVAILABLE				
1976-051A	COSMOS 823	8873	USSR	02 JUN	104.8	83.0	1005	969	2.59	
1976-051B		8874	USSR	02 JUN	104.7	83.0	1001	963	7.66	
1976-053A	MARISAT 2	8882	US	10 JUN	1436.0	10.2	35790	35782	0.14	
1976-053F		8910	US	10 JUN	460.6	25.4	26472	282	0.20	
1976-054A	COSMOS 825	8889	USSR	15 JUN	114.6	74.0	1484	1393	0.78	
1976-054B	COSMOS 826	8890	USSR	15 JUN	116.2	74.0	1542	1479	0.69	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1976-054C	COSMOS 827	8891	USSR	15 JUN	114.9	74.0	1487	1410	0.69	
1976-054D	COSMOS 828	8892	USSR	15 JUN	115.1	74.0	1487	1430	0.85	
1976-054E	COSMOS 829	8893	USSR	15 JUN	115.3	74.0	1489	1447	0.95	
1976-054F	COSMOS 830	8894	USSR	15 JUN	115.5	74.0	1490	1466	1.15	
1976-054G	COSMOS 831	8895	USSR	15 JUN	115.7	74.0	1504	1473	0.74	
1976-054H	COSMOS 832	8896	USSR	15 JUN	116.0	74.0	1518	1480	1.43	
1976-054J		8897	USSR	15 JUN	117.9	74.0	1686	1485	7.08	
1976-059A		8916	US	26 JUN	NO ELEMENTS AVAILABLE					
1976-059C		8918	US	26 JUN	NO ELEMENTS AVAILABLE					
1976-059D		8919	US	26 JUN	NO CURRENT ELEMENTS					
1976-061A	COSMOS 836	8923	USSR	29 JUN	100.6	74.1	801	773	3.21	
1976-061B		8924	USSR	29 JUN	100.4	74.1	789	766	8.52	
1976-061C		9572	USSR	29 JUN	99.1	74.1	718	709	0.02	
1976-061D		14815	USSR	29 JUN	99.3	74.1	734	713	0.02	
1976-065C		9008	US	08 JUL	NO ELEMENTS AVAILABLE					
1976-066A	PALAPA 1	9009	INDNSA	08 JUL	1438.6	8.6	35852	35818	3.90	
1976-066C		9017	US	08 JUL	295.6	24.5	16377	268	0.30	
1976-067A	COSMOS 839	9011	USSR	08 JUL	115.6	65.9	2053	915	0.18	
1976-067B			USSR	08 JUL	SEE NOTE					21*
1976-067B	TO 067BZ									
1976-069A	COSMOS 841	9022	USSR	15 JUL	100.4	74.0	789	769	2.54	
1976-069B		9023	USSR	15 JUL	100.3	74.0	783	757	7.15	
1976-069C		9704	USSR	15 JUL	99.3	74.1	729	718	0.01	
1976-069D		13499	USSR	15 JUL	100.3	74.1	788	756	0.02	
1976-070A	COSMOS 842	9025	USSR	21 JUL	104.8	83.0	1004	964	3.80	
1976-070B		9044	USSR	21 JUL	104.6	83.0	987	966	5.18	
1976-073A	COMSTAR 2	9047	US	22 JUL	1440.3	8.7	35876	35863	25.60	
1976-073B		9329	US	22 JUL	645.6	22.1	36140	591	3.10	
1976-077A	NDAA 5	9057	US	29 JUL	116.2	102.1	1519	1504	11.92	
1976-077A	TO 077FR				SEE NOTE					22*
1976-078A	COSMOS 846	9061	USSR	29 JUL	104.6	82.9	1006	946	2.20	
1976-078B		9062	USSR	29 JUL	104.5	82.9	990	947	6.23	
1976-080A		9270	US	06 AUG	NO ELEMENTS AVAILABLE					
1976-080B		9271	US	06 AUG	NO ELEMENTS AVAILABLE					
1976-091A	DMSF-F1	9415	US	11 SEP	NO ELEMENTS AVAILABLE					
1976-091B		9419	US	11 SEP	NO ELEMENTS AVAILABLE					
1976-091C		9420	US	11 SEP	NO ELEMENTS AVAILABLE					
1976-091F		9484	US	11 SEP	NO ELEMENTS AVAILABLE					
1976-091G		9518	US	11 SEP	NO ELEMENTS AVAILABLE					
1976-092A	RADUGA 2	9416	USSR	11 SEP	1436.0	13.1	35879	35688	0.14	
1976-092A		9416	USSR	11 SEP	1436.8	13.0	35859	35742	0.14	
1976-092F		17872	USSR	29 SEP	100.5	74.1	794	774	3.25	
1976-098A	COSMOS 858	9443	USSR	29 SEP	100.4	74.1	786	765	8.10	
1976-098B		9444	USSR	29 SEP	100.4	74.1	784	754	0.01	
1976-098C		14816	USSR	29 SEP	100.2	74.0	735	711	0.03	
1976-098D		14817	USSR	29 SEP	99.3	74.1	755	723	0.01	
1976-098E		18504	USSR	29 SEP	99.6	74.1	755	723	0.01	
1976-101A	MARISAT 3	9478	US	14 OCT	1436.1	11.6	35796	35779	0.14	
1976-101A	METEOR	9481	USSR	15 OCT	102.2	81.3	886	837	8.84	
1976-102A		9482	USSR	15 OCT	102.3	81.3	912	826	8.64	
1976-102B		9486	USSR	17 OCT	104.3	64.7	995	923	4.41	
1976-103A	COSMOS 860	19297	USSR	17 OCT	98.2	64.7	675	669	0.01	
1976-103F		9494	USSR	21 OCT	104.2	64.9	987	928	4.33	
1976-104A	COSMOS 861	9495	USSR	22 OCT	717.3	64.4	39796	536	0.50	
1976-105A	COSMOS 862	9506	USSR	22 OCT	710.5	62.7	39782	211	0.50	

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1977 LAUNCHES

## METEOR 2-2

1977-010A MOLNIYA 2-17  
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OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1977-012C		9843	JAPAN	19 FEB	134.0	65.7	3797	799	0.31	
1977-012E		9981	JAPAN	19 FEB	133.3	65.2	3733	793	0.01	
1977-012F		9982	JAPAN	19 FEB	133.5	65.9	3770	778	0.11	
1977-012G		9983	JAPAN	19 FEB	134.1	65.6	3787	813	0.10	
1977-012H		12857	JAPAN	19 FEB	133.9	66.3	3777	809	0.10	
1977-012J		13133	JAPAN	19 FEB	133.0	65.8	3710	793	0.03	
1977-012K		14512	JAPAN	19 FEB	133.8	65.7	3774	796	0.04	
1977-012L		19314	JAPAN	19 FEB	133.3	65.4	3896	631	0.01	
1977-013A	COSMOS 894	9846	USSR	21 FEB	104.8	82.9	1008	961	5.98	
1977-013B		9848	USSR	21 FEB	104.7	82.9	992	966	8.94	
1977-014A	KIKU 2	9852	JAPAN	23 FEB	1439.7	11.8	35863	35851	0.20	
1977-015B		9854	USSR	26 FEB	93.9	81.2	486	443	10.88	
1977-018A	PALAPA 2	9862	INDNSA	10 MAR	1439.6	7.6	35867	35843	1.00	
1977-021A	MOLNIYA 1-36	9880	USSR	24 MAR	718.5	61.8	39677	713	0.40	
1977-021D		9927	USSR	24 MAR	732.4	62.3	40642	429	0.60	
1977-024A	METEOR	9903	USSR	05 APR	102.3	81.3	887	844	6.15	
1977-024B		9904	USSR	05 APR	102.4	81.3	911	831	19.16	
1977-024C		9907	USSR	05 APR	102.4	82.9	889	857	0.01	
1977-027A		9911	USSR	11 APR	718.3	67.7	37681	2700	1.00	
1977-027D	COSMOS 903	9921	USSR	11 APR	723.9	68.3	37781	2876	0.50	
1977-027E		10946	USSR	11 APR	NO	CURRENT ELEMENTS				
1977-029A	ESA-GEOS	9931	ESA	20 APR	734.1	26.8	38386	2771	0.10	
1977-032A	MOLNIYA 3-7	9941	USSR	28 APR	717.7	61.9	39711	640	0.70	
1977-034A		10000	US	12 MAY	1489.6	12.4	36912	36741	0.60	
1977-034B		10001	US	12 MAY	1509.1	12.0	37352	37053	0.40	
1977-034C		10002	US	12 MAY	1507.0	12.6	38451	35873	1.20	
1977-036A	COSMOS 909	10010	USSR	19 MAY	117.0	65.9	2108	984	2.31	
1977-036B		10011	USSR	19 MAY	116.9	65.9	2097	981	15.96	
1977-036C		10013	USSR	19 MAY	117.0	65.9	2107	984	0.24	
1977-038A		10016	US	23 MAY	NO	ELEMENTS AVAILABLE				
1977-038B		10017	US	23 MAY	NO	ELEMENTS AVAILABLE				
1977-038C		15422	US	23 MAY	NO	ELEMENTS AVAILABLE				
1977-039A	COSMOS 911	10019	USSR	25 MAY	104.7	82.9	997	962	6.75	
1977-039B		10020	USSR	25 MAY	104.5	82.9	993	949	8.57	
1977-041A	INTELSAT 4A F-4	10024	ITSO	26 MAY	1448.2	7.8	36075	35969	1.70	
1977-041B		10025	US	26 MAY	647.9	21.5	36280	567	31.60	
1977-044A	DMSP-F2	10033	US	05 JUN	NO	ELEMENTS AVAILABLE				
1977-044B		10034	US	05 JUN	NO	ELEMENTS AVAILABLE				
1977-044C		10037	US	05 JUN	NO	ELEMENTS AVAILABLE				
1977-044D		10085	US	05 JUN	NO	ELEMENTS AVAILABLE				
1977-047A	COSMOS 917	10059	USSR	16 JUN	717.5	67.6	36125	4213	0.20	
1977-047D		10089	USSR	16 JUN	722.3	67.4	37090	3489	0.60	
1977-048A	GOES 2	10061	US	16 JUN	1436.0	10.9	35795	35773	0.20	
1977-048B		10062	US	16 JUN	108.3	28.4	1721	574	15.56	
1977-048F		10409	US	16 JUN	NO	CURRENT ELEMENTS				
1977-048G		20799	US	16 JUN	1431.6	12.3	36592	34805	0.31	
1977-053A		10091	US	23 JUN	718.1	63.9	20256	20114	0.70	
1977-053B		10960	US	23 JUN	314.4	64.0	17111	762	0.10	
1977-054D		10155	USSR	24 JUN	689.5	62.5	38542	409	0.60	
1977-055A	COSMOS 921	10095	USSR	24 JUN	97.1	75.8	651	587	3.64	
1977-055B		10096	USSR	24 JUN	97.2	75.8	656	588	6.19	
1977-057B		10114	USSR	29 JUN	96.3	97.9	588	569	2.31	
1977-059A	COSMOS 923	10120	USSR	01 JUL	100.7	74.1	800	781	2.94	



# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1977-059B		10121	USSR	01 JUL	100.5	74.0	796	766	8.76	
1977-059C		14802	USSR	01 JUL	99.9	74.1	766	743	0.04	
1977-059D		14818	USSR	01 JUL	99.5	74.1	744	727	0.01	
1977-061B		10135	USSR	07 JUL	94.1	81.2	491	456	13.36	
1977-062A	COSMOS 926	10137	USSR	08 JUL	104.9	82.9	1015	966	3.68	
1977-062B		10138	USSR	08 JUL	104.8	82.9	1002	969	6.33	
1977-064A	COSMOS 928	10141	USSR	13 JUL	104.6	83.0	1004	946	4.36	
1977-064B		10142	USSR	13 JUL	104.5	83.0	1001	937	7.28	
1977-065A	HIMAWARI	10143	JAPAN	14 JUL	1451.0	11.1	36148	36005	3.90	
1977-065B	TO 65GC		US	14 JUL	SEE NOTE		24*		24*	
1977-068A	COSMOS 931	10150	USSR	20 JUL	717.1	66.5	36566	3755	1.00	
1977-068D		10167	USSR	20 JUL	720.7	66.9	36007	4491	6.01	
1977-068E		12906	USSR	20 JUL	715.5	67.0	35568	4672	0.31	
1977-068F		12996	USSR	20 JUL	704.4	61.8	38095	1596	0.03	
1977-068G		14000	USSR	20 JUL	718.2	65.1	36876	3500	0.00	
1977-071A	RADUGA 3	10159	USSR	23 JUL	1437.2	12.7	35853	35763	0.14	
1977-071F		11570	USSR	23 JUL	1473.4	13.1	36551	36473	1.50	
1977-076A	VOYAGER 2	10271	US	20 AUG	HELIOCENTRIC ORBIT					
1977-076B		10272	US	20 AUG	HELIOCENTRIC ORBIT					
1977-076C		10273	US	20 AUG	HELIOCENTRIC ORBIT					
1977-079A	COSMOS 939	10282	USSR	24 AUG	114.8	74.0	1459	1430	0.79	
1977-079B	COSMOS 940	10286	USSR	24 AUG	114.4	74.0	1460	1391	0.59	
1977-079C	COSMOS 941	10287	USSR	24 AUG	114.6	74.0	1460	1411	0.87	
1977-079D	COSMOS 942	10288	USSR	24 AUG	115.9	74.0	1530	1461	0.90	
1977-079E	COSMOS 943	10289	USSR	24 AUG	115.0	74.0	1459	1448	0.70	
1977-079F	COSMOS 944	10290	USSR	24 AUG	115.2	74.0	1468	1459	0.65	
1977-079G	COSMOS 945	10291	USSR	24 AUG	115.4	74.0	1488	1460	0.80	
1977-079H	COSMOS 946	10292	USSR	24 AUG	115.6	74.0	1507	1460	0.71	
1977-079J		10293	USSR	24 AUG	117.5	74.0	1675	1460	10.58	
1977-080A	SIRIO	10294	ITALY	25 AUG	1437.4	9.6	35869	35755	0.14	
1977-080B		10295	US	25 AUG	115.5	27.1	2082	874	11.91	
1977-082E		10369	USSR	30 AUG	634.4	63.9	35919	238	4.60	
1977-084A	VOYAGER 1	10321	US	05 SEP	HELIOCENTRIC ORBIT					
1977-084B		10322	US	05 SEP	HELIOCENTRIC ORBIT					
1977-084C		10323	US	05 SEP	HELIOCENTRIC ORBIT					
1977-087A	COSMOS 951	10352	USSR	13 SEP	104.8	83.0	1009	959	4.86	
1977-087B		10355	USSR	13 SEP	104.7	83.0	1002	955	7.68	
1977-088A	COSMOS 952	10358	USSR	16 SEP	104.1	64.9	991	911	3.44	
1977-091A	COSMOS 955	10362	USSR	20 SEP	94.6	81.2	501	493	10.94	
1977-091B		10363	USSR	20 SEP	94.9	81.2	537	489	6.18	
1977-092A	EKRAN	10365	USSR	20 SEP	1436.8	12.7	35938	35663	0.14	
1977-092G		11571	USSR	20 SEP	1421.8	12.5	35544	35468	1.50	
1977-093A	PROGNOZ 6	10370	USSR	22 SEP	NO CURRENT ELEMENTS					
1977-102D		10425	US	22 OCT	NO CURRENT ELEMENTS					
1977-105A	MOLNIYA 3-8	10455	USSR	28 OCT	717.0	62.7	40024	294	0.60	
1977-105E		10485	USSR	28 OCT	731.6	63.1	40618	413	0.50	
1977-106A	NNSS 30110	10457	US	28 OCT	106.8	89.7	1097	1059	3.44	
1977-106B		10462	US	28 OCT	106.8	89.7	1098	1060	1.34	
1977-106C		12858	US	28 OCT	106.9	89.5	1096	1065	0.05	
1977-107A	COSMOS 962	10459	USSR	28 OCT	104.7	83.0	1004	959	2.16	
1977-107B		10461	USSR	28 OCT	104.6	82.9	1000	950	11.30	
1977-108A	METEOSAT 1	10489	ESA	23 NOV	1437.7	11.9	35853	35780	0.07	
1977-108B		10490	US	23 NOV	115.1	28.3	2428	490	17.82	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1977-109A	COSMOS 963	10491	USSR	24 NOV	109.2	82.9	1204	1175	2.05	
1977-109B		10492	USSR	24 NOV	109.1	82.9	1200	1169	12.83	
1977-112A		10502	US	08 DEC	NO ELEMENTS	AVAILABLE				
1977-112B		10504	US	08 DEC	NO ELEMENTS	AVAILABLE				
1977-112C		10528	US	08 DEC	NO ELEMENTS	AVAILABLE				
1977-112D		10529	US	08 DEC	NO ELEMENTS	AVAILABLE				
1977-112E		10544	US	08 DEC	NO ELEMENTS	AVAILABLE				
1977-112F		10594	US	08 DEC	NO ELEMENTS	AVAILABLE				
1977-112G		10595	US	08 DEC	NO ELEMENTS	AVAILABLE				
1977-112H		12859	US	08 DEC	NO ELEMENTS	AVAILABLE				
1977-114A		10508	US	11 DEC	NO ELEMENTS	AVAILABLE				
1977-114B		10509	US	11 DEC	NO ELEMENTS	AVAILABLE				
1977-116A	COSMOS 967	10512	USSR	13 DEC	104.7	65.8	1001	960	1.66	
1977-116B		10513	USSR	13 DEC	104.5	65.8	995	946	10.53	
1977-116C		10518	USSR	13 DEC	104.6	65.8	995	957	0.71	
1977-117A	METEOR 2-3	10526	USSR	13 DEC	104.7	65.8	999	962	0.20	
1977-117B		10514	USSR	14 DEC	102.2	81.2	874	847	5.45	
1977-117C		10515	USSR	14 DEC	102.3	81.2	899	830	9.86	
1977-117D		14950	USSR	14 DEC	102.3	81.2	897	833	0.01	
1977-118A	SAKURA	10516	JAPAN	15 DEC	1455.9	10.5	36176	36169	1.00	
1977-118B		10517	US	15 DEC	109.1	28.7	1890	483	14.60	
1977-118C		10519	US	15 DEC	109.7	29.1	1879	541	0.03	
1977-119A	COSMOS 968	10520	USSR	16 DEC	100.4	74.0	791	764	3.67	
1977-119B		10521	USSR	16 DEC	100.2	74.0	783	750	14.82	
1977-119C		10524	USSR	16 DEC	99.8	74.0	761	737	0.01	
1977-119D		10525	USSR	16 DEC	99.9	74.0	764	739	0.04	
1977-119E		18512	USSR	16 DEC	99.6	74.0	748	732	0.01	
1977-121A	COSMOS 970	10531	USSR	21 DEC	105.9	65.9	1143	928	4.88	
1977-121B	TO 121BY			21 DEC	SEE NOTE		25*			25*
1977-122A	COSMOS 971	10536	USSR	23 DEC	104.9	82.9	1002	972	4.35	
1977-122B		10537	USSR	23 DEC	104.7	82.9	994	965	17.15	
1977-123A	COSMOS 972	10539	USSR	27 DEC	103.7	75.8	1157	710	3.38	
1977-123B		10541	USSR	27 DEC	103.7	75.8	1153	711	7.55	
1978 LAUNCHES										
1978-002A	INTELSAT 4A F-3	10557	ITSD	07 JAN	1441.5	7.2	35908	35875	1.10	
1978-002B		10722	US	17 JAN	650.1	21.3	36334	627	2.00	
1978-004A	COSMOS 975	10561	USSR	10 JAN	95.0	81.2	522	513	13.20	
1978-004B		10582	USSR	10 JAN	95.7	81.2	581	524	10.04	
1978-005A	COSMOS 976	10581	USSR	10 JAN	115.0	74.0	1462	1453	0.88	
1978-005B	COSMOS 977	10584	USSR	10 JAN	114.4	74.0	1462	1397	0.80	
1978-005C	COSMOS 978	10585	USSR	10 JAN	114.6	74.0	1462	1416	0.86	
1978-005D	COSMOS 979	10586	USSR	10 JAN	114.8	74.0	1462	1434	1.27	
1978-005E	COSMOS 980	10587	USSR	10 JAN	115.3	74.0	1474	1460	0.74	
1978-005F	COSMOS 981	10588	USSR	10 JAN	115.5	74.0	1494	1461	0.81	
1978-005G	COSMOS 982	10589	USSR	10 JAN	115.7	74.0	1514	1461	0.65	
1978-005H	COSMOS 983	10590	USSR	10 JAN	116.0	74.0	1536	1461	0.86	
1978-005J		10591	USSR	10 JAN	117.7	74.0	1692	1460	10.64	
1978-007A	COSMOS 985	10599	USSR	17 JAN	104.6	82.9	1013	937	3.06	
1978-007B		10600	USSR	17 JAN	104.5	82.9	1004	935	7.41	
1978-012A	IUE	10637	US	26 JAN	1436.2	34.3	41304	30274	0.20	
1978-012C		10723	US	26 JAN	525.0	29.5	30084	275	0.20	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1978-014A	KYOKKO	10664	JAPAN	04 FEB	134.0	65.4	3952	639	1.59	
1978-014C		12329	JAPAN	04 FEB	133.7	65.3	3917	649	0.07	
1978-014D		12330	JAPAN	04 FEB	133.9	65.4	3951	634	0.34	
1978-014F		12331	JAPAN	04 FEB	132.4	64.8	3819	633	0.06	
1978-016A	FLTSATCOM 1	12406	JAPAN	04 FEB	133.0	65.9	3862	641	0.05	
1978-016C		10669	US	09 FEB	1436.1	11.3	35794	35778	2.50	
1978-018A		12908	US	09 FEB	187.0	26.4	8667	244	19.91	
1978-018B		10674	JAPAN	16 FEB	107.2	69.4	1216	974	2.03	
1978-018C	COSMOS 990	10675	JAPAN	16 FEB	107.1	69.4	1211	973	1.62	
1978-019A		13132	JAPAN	16 FEB	107.9	69.2	1289	967	0.06	
1978-019B		10676	USSR	17 FEB	100.4	74.0	791	764	3.32	
1978-019C		10677	USSR	17 FEB	100.2	74.0	780	756	10.58	
1978-019D	COSMOS 991	14803	USSR	17 FEB	99.1	74.0	721	712	0.01	
1978-019E		13500	USSR	17 FEB	99.9	74.1	762	742	0.01	
1978-020A		18501	USSR	17 FEB	99.9	74.1	767	743	0.01	
1978-020B		10801	US	22 FEB	727.0	64.5	20573	20235	0.20	
1978-021A	COSMOS 991	10684	US	22 FEB	268.4	64.1	13857	949	0.10	
1978-021B		10688	US	25 FEB	NO ELEMENTS AVAILABLE					
1978-022A		10689	US	25 FEB	NO ELEMENTS AVAILABLE					
1978-022B		10692	USSR	28 FEB	104.6	83.0	1004	949	3.26	
1978-026A	LANDSAT 3	10693	USSR	28 FEB	104.5	83.0	988	957	6.15	
1978-026B		10702	US	05 MAR	103.1	98.9	915	895	8.68	
1978-026C		10703	US	05 MAR	103.0	99.2	903	893	1.32	
1978-028A		10731	USSR	05 MAR	SEE NOTE	26*			26*	
1978-028B	COSMOS 994	10732	USSR	15 MAR	104.9	82.9	1005	969	1.48	
1978-029B		10734	US	15 MAR	104.7	82.9	995	965	8.71	
1978-031A		10744	USSR	16 MAR	NO ELEMENTS AVAILABLE					
1978-031B		10745	USSR	28 MAR	104.6	82.9	1004	947	3.75	
1978-034A	COSMOS 1000	10746	USSR	28 MAR	104.5	82.9	996	942	8.66	
1978-034B		10776	USSR	31 MAR	104.7	82.9	1006	954	3.18	
1978-035A		10777	USSR	31 MAR	104.6	82.9	993	953	11.73	
1978-035B		10778	ITSO	31 MAR	1435.2	7.3	35797	35739	1.50	
1978-038A	INTELSAT 4A F-6	10779	US	31 MAR	1435.2	21.1	36268	574	3.10	
1978-038B		10787	US	07 APR	647.8					
1978-039A		10788	US	07 APR	NO ELEMENTS AVAILABLE					
1978-039B		10792	JAPAN	07 APR	1437.2	11.6	35852	35764	0.31	
1978-039C	YURI	10793	US	07 APR	110.9	28.2	1960	573	16.78	
1978-042A		10794	US	07 APR	155.1	26.9	6146	224	2.28	
1978-044A		10820	US	01 MAY	100.7	98.7	799	786	5.48	
1978-044B		10855	ESA	11 MAY	1452.6	9.3	36135	36081	0.80	
1978-044C	COSMOS 1005	10856	US	11 MAY	139.9	28.0	3527	1571	17.49	
1978-045A		10857	US	11 MAY	NO CURRENT ELEMENTS					
1978-045B		10860	USSR	12 MAY	94.4	81.2	494	485	13.57	
1978-047A		10861	USSR	12 MAY	95.9	81.2	587	534	7.33	
1978-047B	PIONEER VENUS	10893	US	13 MAY	714.2	63.6	20653	19523	0.20	
1978-051A		10894	US	13 MAY	286.7	64.5	15038	1010	0.40	
1978-051B		10911	US	20 MAY	VENUS IMPACT					
1978-053A		10912	US	20 MAY	HELIOCENTRIC ORBIT					
1978-053B	COSMOS 1011	10917	USSR	23 MAY	104.7	82.9	1006	954	3.69	
1978-055A		10918	USSR	23 MAY	104.6	82.9	995	953	8.28	
1978-055E		10925	USSR	02 JUN	717.3	62.7	40066	266	0.60	
1978-056A		10949	USSR	02 JUN	732.5	63.1	40556	521	0.70	
	COSMOS 1013	10930	USSR	07 JUN	116.3	74.0	1552	1476	0.84	

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1978-056B	COSMOS 1014	10931	USSR	07 JUN	116.0	74.0	1528	1477	0.79		
1978-056C	COSMOS 1015	10932	USSR	07 JUN	115.8	74.0	1514	1472	0.78		
1978-056D	COSMOS 1016	10933	USSR	07 JUN	115.6	74.0	1495	1469	0.87		
1978-056E	COSMOS 1017	10934	USSR	07 JUN	115.4	74.0	1490	1455	1.10		
1978-056F	COSMOS 1018	10935	USSR	07 JUN	115.2	74.0	1487	1439	0.75		
1978-056G	COSMOS 1019	10936	USSR	07 JUN	115.0	74.0	1486	1421	0.82		
1978-056H	COSMOS 1020	10937	USSR	07 JUN	114.7	74.0	1482	1405	0.80		
1978-056J		10938	USSR	07 JUN	117.8	74.0	1689	1478	5.82		
1978-058A		10941	US	10 JUN	NO ELEMENTS AVAILABLE						
1978-058B		10942	US	10 JUN	NO ELEMENTS AVAILABLE						
1978-058B		10953	US	16 JUN	1436.3	9.8	35813	35767	2.29		
1978-062A	GOES 3	10954	US	16 JUN	107.3	28.4	1649	555	15.10		
1978-062B		20801	US	16 JUN	1451.1	12.0	39948	32212	1.20		
1978-063A	COSMOS 1023	10961	USSR	21 JUN	100.4	74.1	786	766	6.15		
1978-063B		10962	USSR	21 JUN	100.2	74.1	784	748	20.14		
1978-063C		13497	USSR	21 JUN	100.2	74.1	781	753	0.01		
1978-063D		14804	USSR	21 JUN	98.4	74.0	688	671	0.00		
1978-064A	SEASAT 1	10967	US	27 JUN	100.1	108.0	765	761	7.17		
1978-064A		10970	USSR	28 JUN	717.7	67.3	35357	4993	0.90		
1978-066A	COSMOS 1024	10998	USSR	28 JUN	720.3	67.4	35715	4765	0.70		
1978-066D		10973	USSR	28 JUN	95.8	82.5	567	551	21.26		
1978-067A	COSMOS 1025	10974	USSR	28 JUN	97.1	82.5	635	609	9.33		
1978-067B		10975	US	29 JUN	1451.7	7.1	36183	35999	3.00		
1978-068A	COMSTAR 3	10976	US	29 JUN	648.7	21.6	36267	622	16.30		
1978-068B		10981	ESA	14 JUL	1449.1	11.8	36061	36020	0.10		
1978-071A	ESA GEOS 2	10983	US	14 JUL	400.6	25.9	23001	244	0.20		
1978-071C		10987	USSR	18 JUL	1437.2	12.2	35858	35756	0.14		
1978-073A	RADUGA 4	11074	USSR	18 JUL	1437.2	46.0	31868	681	0.10		
1978-073D		11941	USSR	18 JUL	1475.9	12.7	36623	36501	2.50		
1978-073E		10991	USSR	27 JUL	104.6	82.9	997	955	2.26		
1978-074A	COSMOS 1027	10992	USSR	27 JUL	104.5	82.9	987	957	8.92		
1978-074B		10993	US	05 AUG	NO ELEMENTS AVAILABLE						
1978-075A		10994	US	08 AUG	NO ELEMENTS AVAILABLE						
1978-075B		11003	US	12 AUG	HELIOCENTRIC ORBIT						
1978-078C		11004	US	12 AUG	HELIOCENTRIC ORBIT						
1978-079A	ICE	11006	US	12 AUG	118.5	28.2	2639	587	11.33		
1978-079C		13413	US	12 AUG	NO ELEMENTS AVAILABLE						
1978-079D		11007	USSR	22 AUG	709.2	62.1	39431	496	1.20		
1978-080A	MOLNIYA 1-42	11075	USSR	22 AUG	727.8	62.4	40551	294	0.60		
1978-080D		11015	USSR	06 SEP	717.0	66.2	36178	4139	0.50		
1978-083A	COSMOS 1030	11076	USSR	06 SEP	723.2	67.0	35609	5010	0.60		
1978-083D		12907	USSR	06 SEP	711.4	64.0	36813	3227	3.01		
1978-083E		12919	USSR	06 SEP	719.5	64.0	37421	3020	0.86		
1978-083F		13959	USSR	06 SEP	721.7	63.7	37601	2948	0.00		
1978-083G		11020	USSR	09 SEP	HELIOCENTRIC ORBIT						
1978-084A	VENERA 11	11025	USSR	14 SEP	HELIOCENTRIC ORBIT						
1978-086A	VENERA 12	11027	USSR	16 SEP	371.0	31.2	21193	253	0.10		
1978-087A	JIKI'KEN	11028	JAPAN	16 SEP	310.6	31.2	17369	258	0.75		
1978-087B		11042	USSR	04 OCT	114.9	74.0	1479	1420	1.16		
1978-091A	COSMOS 1034	11042	USSR	04 OCT	114.6	74.0	1478	1400	0.92		
1978-091B	COSMOS 1035	11044	USSR	04 OCT	114.6	74.0	1478	1400	0.71		
1978-091C	COSMOS 1036	11045	USSR	04 OCT	115.1	74.0	1478	1440	0.71		
1978-091D	COSMOS 1037	11046	USSR	04 OCT	115.3	74.0	1479	1460	0.89		
1978-091E	COSMOS 1038	11047	USSR	04 OCT	115.5	74.0	1485	1474	0.69		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1978-091F	COSMOS 1039	11048	USSR	04 OCT	116.3	74.0	1549	1476	0.83	
1978-091G	COSMOS 1040	11049	USSR	04 OCT	116.0	74.0	1525	1476	0.53	
1978-091H	COSMOS 1041	11050	USSR	04 OCT	115.8	74.0	1507	1474	0.97	
1978-091J		11051	USSR	04 OCT	117.9	74.0	1698	1479	11.60	
1978-093A		11054	US	07 OCT	744.2	63.3	20942	20705	0.20	
1978-094A	COSMOS 1043	11055	USSR	10 OCT	93.2	81.2	433	426	11.56	
1978-094B		11056	USSR	10 OCT	94.9	81.2	539	486	8.82	
1978-095A	MOLNIYA 3-10	11057	USSR	13 OCT	715.5	62.7	40030	212	0.50	
1978-095E		11079	USSR	13 OCT	734.2	62.9	40807	352	1.50	
1978-096A	TIROS-N.	11060	US	13 OCT	101.7	98.7	845	829	8.94	
1978-096B		11061	US	13 OCT	100.0	98.9	760	756	0.14	
1978-096C		11062	US	13 OCT	100.0	98.9	759	754	0.10	
1978-098A	NIMBUS 7	11080	US	24 OCT	103.8	99.0	954	924	4.92	
1978-098B	CAMEO	11081	US	24 OCT	103.9	99.7	966	923	16.81	
1978-100A	COSMOS 1045	11084	USSR	26 OCT	120.3	82.5	1702	1683	7.55	
1978-100B	RADIO 1	11085	USSR	26 OCT	120.3	82.5	1704	1683	0.62	
1978-100C	RADIO 2	11086	USSR	26 OCT	120.3	82.5	1702	1683	0.17	
1978-100D	TO 100AZ				SEE NOTE		27*			27*
1978-105A	COSMOS 1048	11111	USSR	16 NOV	100.5	74.0	797	769	3.22	
1978-105B		11112	USSR	16 NOV	100.4	74.0	802	752	7.80	
1978-105C		11113	USSR	16 NOV	99.8	74.0	756	738	0.02	
1978-105D		11114	USSR	16 NOV	99.5	74.0	744	728	0.03	
1978-106A	NATO III-C	11115	NATO	19 NOV	1462.2	7.6	36310	36279	0.80	
1978-109A	COSMOS 1051	11128	USSR	05 DEC	114.6	74.0	1483	1392	0.79	
1978-109B	COSMOS 1052	11129	USSR	05 DEC	114.8	74.0	1485	1409	0.68	
1978-109C	COSMOS 1053	11130	USSR	05 DEC	115.0	74.0	1485	1427	0.70	
1978-109D	COSMOS 1054	11131	USSR	05 DEC	115.2	74.0	1487	1444	0.86	
1978-109E	COSMOS 1055	11132	USSR	05 DEC	115.4	74.0	1489	1461	0.83	
1978-109F	COSMOS 1056	11133	USSR	05 DEC	115.7	74.0	1502	1469	0.19	
1978-109G	COSMOS 1057	11134	USSR	05 DEC	115.9	74.0	1513	1479	0.79	
1978-109H	COSMOS 1058	11135	USSR	05 DEC	116.1	74.0	1535	1478	0.81	
1978-109J		11136	USSR	05 DEC	118.1	74.0	1697	1490	11.04	
1978-112A		11141	US	11 DEC	746.5	64.6	21012	20749	0.30	
1978-112B		11142	US	11 DEC	269.4	63.8	14233	648	0.10	
1978-113A		11144	US	14 DEC	1530.4	9.8	37730	37495	4.50	
1978-113B		11145	US	14 DEC	1462.7	9.7	36331	36278	0.70	
1978-113D		11147	US	14 DEC	1533.4	11.7	38862	36478	0.31	
1978-116A	ANIK B1	11153	CANADA	16 DEC	1442.6	6.6	35927	35900	0.60	
1978-117A	COSMOS 1063	11155	USSR	19 DEC	95.1	81.2	525	517	10.69	
1978-117B		11156	USSR	19 DEC	95.2	81.3	551	503	18.67	
1978-118A	GORIZONT 1	11158	USSR	19 DEC	1435.8	22.3	49365	22197	0.14	
1978-118C		11926	USSR	19 DEC	1417.4	22.1	48751	22088	2.50	
1978-121A	COSMOS 1066	11165	USSR	23 DEC	102.0	81.2	890	819	9.53	
1978-121B		11166	USSR	23 DEC	101.9	81.2	897	800	16.77	
1978-121C		19643	USSR	23 DEC	101.9	81.2	894	798	0.01	
1978-122A	COSMOS 1067	11168	USSR	26 DEC	109.0	83.0	1210	1154	1.77	
1978-122B		11170	USSR	26 DEC	108.9	83.0	1195	1156	12.45	
1979 LAUNCHES										
1979-003A	COSMOS 1072	11238	USSR	16 JAN	104.8	82.9	1010	957	4.67	
1979-003B		11239	USSR	16 JAN	104.7	82.9	1008	949	7.01	
1979-004A	MOLNIYA 3-11	11240	USSR	18 JAN	717.6	62.9	39973	371	1.00	

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1979-004D		11553	USSR	18 JAN	733.0	63.5	40585	515	2.00	
1979-005A	METEOR 1-29	11251	USSR	25 JAN	96.1	97.8	597	545	19.36	
1979-005B		11252	USSR	25 JAN	94.5	97.4	503	489	4.76	
1979-007A	SCATHA	11256	US	30 JAN	1418.4	10.1	42918	27961	2.00	
1979-009A	AYAME 1	11261	JAPAN	06 FEB	1313.1	4.9	37425	29260	0.31	
1979-011A	COSMOS 1076	11266	USSR	12 FEB	95.1	82.5	530	514	14.16	
1979-011B		11267	USSR	12 FEB	97.1	82.5	632	605	6.64	
1979-012A	COSMOS 1077	11268	USSR	13 FEB	94.4	81.2	491	485	8.38	
1979-012B		11269	USSR	13 FEB	94.9	81.2	544	486	7.09	
1979-015A		11273	USSR	21 FEB	1435.7	11.9	35935	35621	0.14	
1979-015D	EKRAN 3	13900	USSR	21 FEB	1421.0	11.7	35534	35444	2.00	
1979-017AM		16084	US	24 FEB	93.5	97.9	458	432	0.49	
1979-017AN		16085	US	24 FEB	94.1	97.8	484	469	0.14	
1979-017BX		16308	US	24 FEB	92.8	97.8	419	405	0.07	
1979-017CA		16311	US	24 FEB	93.6	97.8	460	438	0.22	
1979-017FE		16480	US	24 FEB	93.5	97.8	455	441	0.07	
1979-017FF		16484	US	24 FEB	92.1	97.6	385	370	0.24	
1979-017FG		16485	US	24 FEB	90.4	97.4	300	285	0.37	
1979-017GJ		16551	US	24 FEB	92.5	97.8	405	388	0.01	
1979-017GX		16564	US	24 FEB	94.1	97.8	480	469	0.02	
1979-017JF		16878	US	24 FEB	93.8	97.9	469	450	0.01	
1979-017JH		17094	US	24 FEB	93.8	97.8	480	443	0.13	
1979-020A		11285	USSR	27 FEB	96.3	74.0	731	451	9.70	
1979-020B	INTERCOSMOS 19	11286	USSR	27 FEB	96.5	74.0	873	835	7.70	
1979-021A		11288	USSR	01 MAR	102.0	81.2	912	798	10.18	
1979-021B	METEOR 2-4	11289	USSR	01 MAR	102.1	81.2	879	835	0.01	
1979-021C		11290	USSR	01 MAR	102.8	81.3	929	854	0.01	
1979-021D		14632	USSR	01 MAR	102.8	74.0	1463	1402	0.43	
1979-024A	COSMOS 1081	11296	USSR	15 MAR	114.5	74.0	1463	1421	0.93	
1979-024B	COSMOS 1082	11297	USSR	15 MAR	114.7	74.0	1463	1440	0.88	
1979-024C	COSMOS 1083	11298	USSR	15 MAR	114.9	74.0	1464	1459	0.84	
1979-024D	COSMOS 1084	11299	USSR	15 MAR	115.1	74.0	1462	1463	0.37	
1979-024E	COSMOS 1085	11300	USSR	15 MAR	115.6	74.0	1501	1463	0.79	
1979-024F	COSMOS 1086	11301	USSR	15 MAR	115.4	74.0	1479	1463	0.61	
1979-024G	COSMOS 1087	11302	USSR	15 MAR	115.8	74.0	1522	1463	0.89	
1979-024H	COSMOS 1088	11303	USSR	15 MAR	116.1	74.0	1545	1463	9.95	
1979-024J		11304	USSR	15 MAR	117.6	74.0	1687	1458		
1979-025B		11306	US	16 MAR	NO ELEMENTS AVAILABLE					
1979-026A	COSMOS 1089	11308	USSR	21 MAR	104.7	83.0	997	963	3.23	
1979-026B		11309	USSR	21 MAR	104.6	83.0	988	961	10.49	
1979-028A	COSMOS 1091	11320	USSR	07 APR	104.7	82.9	1006	958	3.75	
1979-028B		11321	USSR	07 APR	104.6	82.9	992	961	10.03	
1979-030A	COSMOS 1092	11326	USSR	11 APR	104.7	82.9	1003	957	3.74	
1979-030B		11327	USSR	11 APR	104.6	82.9	996	953	10.34	
1979-031A	MOLNIYA 1-43	11328	USSR	12 APR	100.4	63.7	1460	99	1.26	
1979-031D		11551	USSR	12 APR	620.8	64.1	35321	132	21.14	
1979-032A	COSMOS 1093	11331	USSR	14 APR	94.2	81.2	487	474	14.19	
1979-032B		11332	USSR	14 APR	95.6	81.2	581	515	8.03	
1979-035A	RADUGA 5	11343	USSR	25 APR	1436.5	11.8	35820	35767	0.14	
1979-035E		17873	USSR	25 APR	1437.8	11.9	35942	35698	1.60	
1979-038A	FLTSATCOM 2	11353	US	04 MAY	1461.3	9.9	36335	36223	0.70	
1979-046A	COSMOS 1104	11378	USSR	31 MAY	104.7	82.9	1003	954	2.80	
1979-046B		11379	USSR	31 MAY	104.6	82.9	990	956	9.37	

OBJECTS IN ORBIT

INTER-  
NATIONAL  
DESIGNATION

NAME

CATALOG  
NUMBER

SOURCE

LAUNCH

PERIOD  
MINUTES

INCLI-  
NATION

APOGEE  
(KM)

PERIGEE  
(KM)

RCS  
(SQ.M) NOTES

1979-050A	11389	US	06 JUN	NO ELEMENTS AVAILABLE					
1979-050B	11403	US	06 JUN	NO ELEMENTS AVAILABLE					
1979-050C	11408	US	06 JUN	NO ELEMENTS AVAILABLE					
1979-050D	11410	US	06 JUN	NO ELEMENTS AVAILABLE					
1979-053A	11534	US	06 JUN	NO ELEMENTS AVAILABLE					
1979-053C	11397	US	10 JUN	NO ELEMENTS AVAILABLE					
1979-053D	11436	US	10 JUN	NO ELEMENTS AVAILABLE					
1979-057A	20364	US	10 JUN	NO ELEMENTS AVAILABLE					
1979-057B	11416	US	27 JUN	100.7	98.6	800	785	3.72	
1979-057C	11419	US	27 JUN	98.8	98.3	703	698	0.11	
1979-058A	11634	US	27 JUN	98.9	98.3	706	701	0.09	
1979-058D	11417	USSR	27 JUN	718.1	67.3	38611	1758	0.00	
1979-058E	11555	USSR	27 JUN	721.6	67.7	38516	2024	0.50	
1979-058F	12833	USSR	27 JUN	715.1	67.3	38369	1850	2.50	
1979-058G	12834	USSR	27 JUN	719.3	67.5	34838	5590	0.20	
1979-058H	12909	USSR	27 JUN	719.6	67.7	38432	2010	0.00	
1979-058J	12995	USSR	27 JUN	726.2	67.7	38658	2113	0.00	
1979-060A	13960	USSR	27 JUN	720.4	67.7	38471	2014	0.20	
1979-060B	11425	USSR	28 JUN	100.6	74.0	797	775	4.09	
1979-060C	11427	USSR	28 JUN	100.4	74.0	792	761	10.38	
1979-060D	14866	USSR	28 JUN	99.3	74.1	728	725	0.01	
1979-062A	15784	USSR	28 JUN	99.8	74.0	750	746	0.01	
1979-062D	11440	USSR	05 JUL	1435.7	11.4	35786	35771	0.14	
1979-067B	14005	USSR	05 JUL	1474.4	11.8	36557	36508	1.50	
1979-070A	11458	USSR	20 JUL	94.6	81.2	523	476	8.18	
1979-070D	11474	USSR	31 JUL	717.8	63.3	39803	553	0.40	
1979-072A	11556	USSR	31 JUL	733.1	63.8	40179	927	8.62	
1979-072C	11484	US	10 AUG	1440.9	5.3	35895	35863	1.50	
1979-077A	13940	US	10 AUG	136.1	24.3	4600	168	2.15	
1979-077D	11509	USSR	28 AUG	717.0	67.3	35403	4913	0.70	
1979-077E	11550	USSR	28 AUG	723.8	67.1	35814	4835	0.40	
1979-077F	12814	USSR	28 AUG	720.2	68.3	38472	2001	0.93	
1979-077G	12815	USSR	28 AUG	715.7	67.1	35782	4468	3.77	
1979-077H	12816	USSR	28 AUG	686.5	63.6	36895	1904	0.00	
1979-078A	12817	USSR	28 AUG	720.7	68.4	37999	2497	10.00	
1979-078B	11510	USSR	28 AUG	100.6	74.0	795	779	1.29	
1979-078C	11511	USSR	28 AUG	100.4	74.0	790	767	8.82	
1979-078D	14805	USSR	28 AUG	99.4	74.1	731	724	0.02	
1979-078E	14806	USSR	28 AUG	100.4	74.0	779	771	0.01	
1979-084A	18650	USSR	28 AUG	99.2	74.1	728	716	0.01	
1979-084B	11538	USSR	25 SEP	114.6	74.0	1478	1395	0.58	
1979-084C	11539	USSR	25 SEP	114.8	74.0	1480	1408	0.83	
1979-084D	11540	USSR	25 SEP	114.9	74.0	1480	1423	0.76	
1979-084E	11541	USSR	25 SEP	115.1	74.0	1481	1436	0.89	
1979-084F	11542	USSR	25 SEP	115.3	74.0	1482	1451	0.77	
1979-084G	11543	USSR	25 SEP	115.4	74.0	1490	1459	0.72	
1979-084H	11544	USSR	25 SEP	115.6	74.0	1494	1470	0.74	
1979-084J	11545	USSR	25 SEP	115.8	74.0	1511	1471	0.73	
1979-086A	11546	USSR	25 SEP	117.8	74.0	1681	1480	8.95	
1979-086C	11558	US	01 OCT	NO ELEMENTS AVAILABLE					
1979-087A	11560	US	01 OCT	NO ELEMENTS AVAILABLE					
1979-087C	11561	USSR	03 OCT	1435.7	11.6	35910	35647	0.14	
1979-087C	17939	USSR	03 OCT	1433.0	11.5	35878	35574	0.14	

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1979-089A	COSMOS 1140	11573	USSR	11 OCT	100.4	74.1	787	765	4.84	
1979-089B		11574	USSR	11 OCT	100.2	74.1	778	755	8.65	
1979-089C		14345	USSR	11 OCT	99.9	74.0	762	740	0.02	
1979-089D		14807	USSR	11 OCT	99.3	74.1	729	717	0.01	
1979-089E		19048	USSR	11 OCT	100.0	74.0	770	742	0.01	
1979-090A	COSMOS 1141	11585	USSR	16 OCT	104.6	82.9	995	953	3.63	
1979-090B		11586	USSR	16 OCT	104.4	82.9	987	948	7.93	
1979-090C		11587	USSR	16 OCT	102.3	82.9	890	847	0.03	
1979-091A	MOLNIYA 1-45	11589	USSR	20 OCT	709.6	61.6	39828	120	0.80	
1979-091D		11602	USSR	20 OCT	731.7	61.9	40661	378	0.70	
1979-093A	COSMOS 1143	11600	USSR	26 OCT	95.2	81.3	533	524	26.39	
1979-093B		11601	USSR	26 OCT	95.7	81.2	581	525	15.66	
1979-095A	METEOR 2-5	11605	USSR	31 OCT	102.4	81.2	879	862	12.43	
1979-095B		11608	USSR	31 OCT	102.4	81.2	914	833	14.60	
1979-098A		11621	US	21 NOV	1461.6	9.3	36616	35951	0.14	
1979-098B		11622	US	21 NOV	1436.1	9.5	36323	35249	0.14	
1979-098C		11623	US	21 NOV	1510.8	10.8	38547	35924	0.31	
1979-099A	COSMOS 1145	11629	USSR	27 NOV	94.4	81.2	495	485	18.97	
1979-099B		11630	USSR	27 NOV	95.5	81.2	570	510	8.78	
1979-101A	RCA SATCOM III	11635	US	07 DEC	788.9	8.1	35500	8308	0.10	
1979-105A	GORIZONT 3	11648	USSR	28 DEC	1437.1	11.0	35831	35779	0.14	
1979-105E		11684	USSR	28 DEC	1459.2	11.4	36315	36161	2.00	

## 1980 LAUNCHES

1980-003A	COSMOS 1150	11667	USSR	14 JAN	104.8	83.0	1010	962	4.14	
1980-003B		11668	USSR	14 JAN	104.7	82.9	996	962	11.64	
1980-004A	FLTSATCOM 3	11669	US	18 JAN	1434.8	9.1	35851	35669	0.50	
1980-005A	COSMOS 1151	11671	USSR	23 JAN	96.2	82.5	589	566	43.43	
1980-005B		11672	USSR	23 JAN	97.1	82.5	634	609	6.79	
1980-007A	COSMOS 1153	11680	USSR	25 JAN	104.8	82.9	1012	959	4.63	
1980-007B		11681	USSR	25 JAN	104.7	82.9	1007	953	5.76	
1980-008A		11682	USSR	30 JAN	95.5	81.2	545	540	31.67	
1980-008B	COSMOS 1154	11683	USSR	30 JAN	95.9	81.2	597	530	13.95	
1980-011A		11690	US	09 FEB	718.0	64.9	20563	19802	0.10	
1980-011B		11705	US	09 FEB	289.4	63.8	15537	692	0.20	
1980-012A	COSMOS 1156	11691	USSR	11 FEB	114.5	74.0	1472	1396	0.74	
1980-012B	COSMOS 1157	11692	USSR	11 FEB	114.7	74.0	1474	1413	0.91	
1980-012C	COSMOS 1158	11693	USSR	11 FEB	115.0	74.0	1476	1432	0.76	
1980-012D	COSMOS 1159	11694	USSR	11 FEB	115.2	74.0	1476	1448	0.90	
1980-012E	COSMOS 1160	11695	USSR	11 FEB	115.4	74.0	1481	1463	0.83	
1980-012F	COSMOS 1161	11696	USSR	11 FEB	115.6	74.0	1501	1465	0.82	
1980-012G	COSMOS 1162	11697	USSR	11 FEB	115.8	74.0	1517	1469	0.93	
1980-012H	COSMOS 1163	11698	USSR	11 FEB	116.1	74.0	1541	1469	0.94	
1980-012J		11699	USSR	11 FEB	117.7	74.0	1693	1466	11.16	
1980-016A	RADUGA 6	11708	USSR	20 FEB	1436.7	11.4	35816	35780	0.14	
1980-016D		11728	USSR	20 FEB	1475.1	11.7	36618	36475	2.00	
1980-018A	AYAME 2	11715	JAPAN	22 FEB	1386.6	1.4	36839	32785	0.31	
1980-018C		11718	US	22 FEB	313.3	24.6	17549	251	0.10	
1980-019A		11720	US	03 MAR	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE		
1980-019B		11721	US	03 MAR	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE		
1980-019C		11731	US	03 MAR	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE		
1980-019D		11732	US	03 MAR	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE	NO ELEMENTS AVAILABLE		



## OBJECTS IN ORBIT

INTER-  
NATIONAL  
DESIGNATION

## NAME

CATALOG  
NUMBER

## SOURCE

## LAUNCH

PERIOD  
MINUTESINCLT-  
NATIONAPOGEE  
(KM)PERIGEE  
(KM)RCS  
(SQ.M)FOOT-  
NOTES

1980-019E	11733	US	03 MAR	NO ELEMENTS AVAILABLE						
1980-019F	11734	US	03 MAR	NO ELEMENTS AVAILABLE						
1980-019G	11745	US	03 MAR	NO ELEMENTS AVAILABLE						
1980-019H	11746	US	03 MAR	NO ELEMENTS AVAILABLE						
1980-022A	11735	USSR	17 MAR	104.7	82.9	1007	955	4.76		
1980-022B	11736	USSR	17 MAR	104.6	82.9	1000	952	3.91		
1980-022C	12404	USSR	17 MAR	103.0	82.9	922	877	0.02		
1980-026A	11750	USSR	03 APR	104.8	65.8	1000	970	2.62		
1980-026B	11751	USSR	03 APR	104.6	65.8	977	974	10.67		
1980-026C	11752	USSR	03 APR	104.8	65.8	999	966	0.63		
1980-028A	11758	USSR	12 APR	716.4	64.7	38810	1475	9.20		
1980-028E	11762	USSR	12 APR	722.1	64.9	39504	1064	1.00		
1980-030A	11765	USSR	18 APR	102.9	66.1	1419	373	3.33		
1980-030J	11777	USSR	18 APR	99.3	66.0	1002	449	0.12		
1980-030K	11778	USSR	18 APR	105.9	66.5	1443	627	0.09		
1980-030N	11781	USSR	18 APR	100.1	66.2	1126	399	0.06		
1980-030R	12343	USSR	18 APR	104.7	66.4	1333	628	0.04		
1980-030V	12347	USSR	18 APR	94.9	66.0	652	379	0.01		
1980-030Y	12354	USSR	18 APR	102.5	66.1	1348	403	0.11		
1980-030AE	12360	USSR	18 APR	91.7	66.0	410	309	0.01		
1980-030AM	13929	USSR	18 APR	93.5	65.7	501	386	0.19		
1980-030AX	15781	USSR	18 APR	103.4	65.8	1249	588	0.01		
1980-030AY	18644	USSR	18 APR	101.4	67.0	846	799	0.01		
1980-032A	11783	US	26 APR	707.8	62.8	20471	19387	0.20		
1980-032B	11791	US	26 APR	177.7	63.1	8014	172	1.98		
1980-032C	21944	US	26 APR	226.3	62.7	11445	402	0.01		
1980-034A	11788	USSR	29 APR	103.4	64.8	962	873	1.00		
1980-034D	11971	USSR	29 APR	103.1	64.8	936	871	0.16		
1980-039A	11803	USSR	20 MAY	104.8	82.9	1002	967	7.43		
1980-039B	11804	USSR	20 MAY	104.7	82.9	994	961	13.94		
1980-044A	11821	USSR	04 JUN	95.3	81.2	534	532	9.12		
1980-044B	11822	USSR	04 JUN	96.2	81.3	606	548	2.50		
1980-049A	11841	USSR	14 JUN	1460.1	10.8	36279	36231	2.50		
1980-050A	11862	USSR	14 JUN	1470.3	11.1	36580	36328	2.50		
1980-050B	11844	USSR	14 JUN	718.5	67.3	38274	2113	1.00		
1980-050E	11847	USSR	14 JUN	722.9	67.5	38471	2135	1.50		
1980-051B	11849	USSR	18 JUN	96.0	97.6	587	549	10.07		
1980-052C	11852	US	18 JUN	NO ELEMENTS AVAILABLE						
1980-056A	11859	USSR	01 JUL	100.6	74.0	792	777	3.00		
1980-056B	11870	USSR	01 JUL	100.4	74.1	790	766	9.57		
1980-056C	14808	USSR	01 JUL	100.7	74.0	805	777	0.01		
1980-056D	14809	USSR	01 JUL	100.5	74.0	790	771	0.02		
1980-057A	11871	USSR	02 JUL	716.9	67.5	34901	5408	1.20		
1980-057D	11888	USSR	02 JUL	721.9	67.2	35764	4793	0.60		
1980-057E	13999	USSR	02 JUL	708.6	65.7	37658	2245	0.31		
1980-058A	11875	USSR	09 JUL	114.5	74.0	1472	1394	0.98		
1980-058B	11876	USSR	09 JUL	114.7	74.0	1473	1411	0.83		
1980-058C	11877	USSR	09 JUL	114.9	74.0	1472	1429	0.96		
1980-058D	11878	USSR	09 JUL	115.1	74.0	1473	1447	0.94		
1980-058E	11879	USSR	09 JUL	115.3	74.0	1473	1465	0.72		
1980-058F	11880	USSR	09 JUL	115.5	74.0	1489	1469	0.87		
1980-058G	11881	USSR	09 JUL	115.7	74.0	1506	1471	0.88		
1980-058H	11882	USSR	09 JUL	116.0	74.0	1529	1470	0.96		

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION		NAME		CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1980-058J				11883	USSR	09 JUL	117.6	74.0	1679	1468	10.19	
1980-060A		EKRAN 5		11890	USSR	14 JUL	1436.1	0.0	35834	35737	0.00	
1980-060F				14193	USSR	14 JUL	1417.3	11.0	35494	35339	2.00	
1980-063A		MOLNIYA 3-13		11896	USSR	18 JUL	717.8	63.1	38982	1372	0.40	
1980-063D				11909	USSR	18 JUL	732.5	63.2	39421	1656	0.60	
1980-069A		COSMOS 1206		11932	USSR	15 AUG	95.2	81.2	530	526	18.71	
1980-069B				11933	USSR	15 AUG	96.0	81.2	598	532	11.78	
1980-073A		METEOR 2-6		11962	USSR	09 SEP	102.1	81.2	885	833	9.13	
1980-073B				11963	USSR	09 SEP	102.2	81.2	908	816	6.84	
1980-074A		GOES 4		11964	USSR	09 SEP	1451.2	9.4	36213	35948	0.10	
1980-074C				11970	US	09 SEP	1767.3	0.1	49745	34341	0.31	
1980-081A		RADUGA 7		12003	USSR	05 OCT	1434.8	10.8	35771	35751	1.00	
1980-081F				12447	USSR	05 OCT	1440.4	11.0	35888	35851	2.00	
1980-085A		COSMOS 1217		12032	USSR	24 OCT	716.9	67.0	38301	2012	1.20	
1980-085D				12035	USSR	24 OCT	722.0	67.5	38659	1901	1.20	
1980-087A		FLTSATCOM 4		12046	US	31 OCT	1436.1	9.2	35803	35770	0.14	
1980-087B				12069	US	31 OCT	173.6	26.1	7599	260	25.06	
1980-089A		COSMOS 1220		12054	USSR	04 NOV	97.6	65.0	760	525	45.05	
1980-091A		SBS 1		12065	US	15 NOV	1436.0	5.2	35798	35773	1.00	
1980-092A		MOLNIYA 1-48		12066	USSR	16 NOV	713.9	62.4	39291	870	0.70	
1980-092A				12070	USSR	16 NOV	733.5	62.3	40162	967	0.70	
1980-093A		COSMOS 1222		12071	USSR	21 NOV	95.9	81.2	562	557	25.86	
1980-093B				12072	USSR	21 NOV	96.0	81.2	601	531	9.20	
1980-093E		COSMOS 1223		12078	USSR	27 NOV	718.1	68.3	34854	5517	0.30	
1980-095A				12086	USSR	27 NOV	723.3	67.7	35709	4918	0.60	
1980-097A		COSMOS 1225		12087	USSR	05 DEC	104.8	82.9	1024	942	4.05	
1980-097B				12088	USSR	05 DEC	104.6	82.9	1010	939	7.07	
1980-098A		INTELSAT 5 F-2		12089	ITSO	06 DEC	1436.1	4.6	35803	35772	273.90	
1980-098B				12445	US	06 DEC	227.4	23.6	11565	362	2.10	
1980-098A				12091	USSR	10 DEC	104.8	82.9	1008	957	4.55	
1980-099A		COSMOS 1226		12092	USSR	10 DEC	104.6	82.9	997	953	10.30	
1980-099B				12093	US	13 DEC	NO	ELEMENTS AVAILABLE				
1980-100A				12094	US	13 DEC	NO	ELEMENTS AVAILABLE				
1980-100B				12107	USSR	23 DEC	114.4	74.0	1462	1392	0.75	
1980-102A		COSMOS 1228		12108	USSR	23 DEC	114.6	74.0	1462	1412	0.73	
1980-102B				12109	USSR	23 DEC	114.4	74.0	1462	1398	0.59	
1980-102C		COSMOS 1230		12110	USSR	23 DEC	114.5	74.0	1462	1404	0.49	
1980-102D				12111	USSR	23 DEC	114.6	74.0	1462	1411	0.77	
1980-102E		COSMOS 1232		12112	USSR	23 DEC	114.7	74.0	1462	1417	1.32	
1980-102F				12113	USSR	23 DEC	114.6	74.0	1462	1408	0.85	
1980-102G		COSMOS 1234		12114	USSR	23 DEC	114.6	74.0	1462	1412	0.78	
1980-102H				12115	USSR	23 DEC	114.9	74.0	1467	1435	14.79	
1980-102J				12120	USSR	26 DEC	1436.2	10.8	35811	35765	0.14	
1980-104A		EKRAN 6		12471	USSR	26 DEC	1421.0	10.7	35621	35358	1.50	
1980-104E												
1981 LAUNCHES												
1981-002A		MOLNIYA 3-14		12133	USSR	09 JAN	717.7	63.5	39856	493	1.60	
1981-002B				12134	USSR	09 JAN	732.1	64.0	40208	850	0.20	
1981-003A		COSMOS 1238		12138	USSR	16 JAN	106.2	83.0	1706	395	2.66	
1981-003B				12139	USSR	16 JAN	104.7	83.0	1565	392	10.86	
1981-006A		COSMOS 1241		12149	USSR	21 JAN	104.9	65.8	1001	980	2.16	
1981-006B				12150	USSR	21 JAN	104.6	65.8	1008	944	8.90	

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1981-006C	COSMOS 1242	12151	USSR	21 JAN	104.8	65.8	996	977	0.38	
1981-008A		12154	USSR	27 JAN	96.2	81.2	584	568	16.51	
1981-008B		12155	USSR	27 JAN	96.4	81.2	625	542	13.84	
1981-009A		12156	USSR	30 JAN	717.3	63.7	38756	1575	0.70	
1981-009D	KIKU 3	12159	USSR	30 JAN	731.6	64.0	39007	2027	1.00	
1981-012C		12295	JAPAN	11 FEB	362.5	28.2	20684	239	0.20	
1981-013A		12297	USSR	11 FEB	505.5	28.1	29052	234	0.10	
1981-013B		12298	USSR	12 FEB	104.7	83.0	1004	958	4.78	
1981-016A	COSMOS 1247	12303	USSR	12 FEB	104.6	82.9	999	953	13.75	
1981-016E		12311	USSR	19 FEB	703.5	67.2	35529	4493	0.50	
1981-016F		12984	USSR	19 FEB	710.5	67.1	35236	4413	0.90	
1981-016G		12985	USSR	19 FEB	710.1	65.4	35422	4572	0.40	
1981-016H	COMSTAR 4	12992	USSR	19 FEB	706.6	65.8	37292	2682	0.53	
1981-018A		12309	US	21 FEB	1436.0	7.1	38696	1106	0.31	
1981-018B		12363	US	21 FEB	649.7	20.2	35789	35781	39.70	
1981-021A		12319	USSR	05 MAR	103.9	65.0	36269	669	2.50	
1981-021C	COSMOS 1249	12551	USSR	05 MAR	103.5	65.0	977	904	8.73	
1981-022A		12320	USSR	06 MAR	114.4	74.0	949	902	0.11	
1981-022B		12321	USSR	06 MAR	114.6	74.0	1469	1387	0.60	
1981-022C		12322	USSR	06 MAR	114.7	74.0	1471	1400	0.75	
1981-022D	COSMOS 1253	12323	USSR	06 MAR	114.7	74.0	1470	1415	0.68	
1981-022E		12324	USSR	06 MAR	115.6	74.0	1493	1466	0.80	
1981-022F		12325	USSR	06 MAR	114.9	74.0	1470	1429	0.89	
1981-022G		12326	USSR	06 MAR	115.0	74.0	1470	1442	0.72	
1981-022H	COSMOS 1256	12327	USSR	06 MAR	115.2	74.0	1474	1454	0.74	
1981-022J		12328	USSR	06 MAR	115.4	74.0	1476	1467	0.66	
1981-025A		12339	US	06 MAR	117.6	74.0	1693	1455	11.28	
1981-025C		12371	US	16 MAR	NO ELEMENTS AVAILABLE					
1981-027A	RADUGA 8	12351	USSR	18 MAR	1434.9	10.8	NO ELEMENTS AVAILABLE	35411	0.70	
1981-027F		14194	USSR	18 MAR	1474.5	11.1	36115	36461	1.50	
1981-028BE		13682	USSR	20 MAR	94.7	65.0	517	489	0.03	
1981-031A		12376	USSR	31 MAR	717.2	67.2	35583	4742	0.90	
1981-031D	COSMOS 1261	12384	USSR	31 MAR	707.5	67.3	34882	4961	0.60	
1981-031E		12892	USSR	31 MAR	719.1	68.0	34920	5498	0.20	
1981-031F		12893	USSR	31 MAR	716.1	64.2	37401	2868	0.31	
1981-031G		12894	USSR	31 MAR	718.4	65.2	37293	3094	0.31	
1981-033A	COSMOS 1263	12388	USSR	09 APR	105.9	83.0	1684	387	3.13	
1981-033B		12389	USSR	09 APR	103.5	83.0	1476	371	11.38	
1981-036E		12427	USSR	16 APR	102.3	99.1	983	749	0.05	
1981-037A		12409	USSR	21 APR	103.6	64.8	941	912	1.53	
1981-037D	COSMOS 1266	12435	USSR	21 APR	103.3	64.8	930	903	0.20	
1981-038A		12418	US	24 APR	NO ELEMENTS AVAILABLE					
1981-038B		12446	US	24 APR	NO ELEMENTS AVAILABLE					
1981-041A		12442	USSR	07 MAY	100.7	74.1	798	781	3.49	
1981-041B	COSMOS 1269	12443	USSR	07 MAY	100.5	74.1	787	781	8.36	
1981-041C		13498	USSR	07 MAY	100.1	74.0	770	754	0.01	
1981-041D		14346	USSR	07 MAY	99.6	74.1	748	730	0.01	
1981-043A		12456	USSR	14 MAY	102.2	81.3	888	835	6.62	
1981-043B	METEOR 2-7	12457	USSR	14 MAY	102.4	81.3	914	825	24.87	
1981-043C		15769	USSR	14 MAY	102.4	81.3	915	826	0.02	
1981-044A		12458	US	15 MAY	108.9	90.1	1183	1164	2.63	
1981-046A		12464	USSR	19 MAY	96.2	81.2	582	565	20.51	
	NNSS 30480									
	COSMOS 1271									

OBJECTS IN ORBIT

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1981-046B		12465	USSR	19 MAY	96.6	81.2	631	563	9.39	
1981-049A	GOES 5	12472	US	22 MAY	1436.3	6.4	35809	35774	0.30	
1981-050A	INTELSAT 5 F-1	12474	ITSO	23 MAY	1436.0	5.1	35802	35770	0.14	
1981-050B		12497	US	23 MAY	216.3	23.9	10791	324	19.51	
1981-053A	COSMOS 1275	12504	USSR	04 JUN	104.7	83.0	1004	953	0.32	
1981-053B	TO 053MT		USSR	04 JUN	SEE NOTE	28*				28*
1981-054A	MOLNIYA 3-16	12512	USSR	09 JUN	715.6	63.4	40031	213	0.40	
1981-054E		12519	USSR	09 JUN	733.6	63.8	40705	424	0.60	
1981-057A	METEOSAT 2	12544	ESA	19 JUN	1458.6	6.4	36343	36109	0.20	
1981-057B		12545	INDIA	19 JUN	1439.3	10.0	35945	35752	0.90	
1981-057C	APPLE	12546	ESA	19 JUN	509.6	10.6	29285	228	0.10	
1981-057F		20837	ESA	19 JUN	1449.1	10.0	36365	35716	0.31	
1981-058A	COSMOS 1278	12547	USSR	19 JUN	719.0	67.0	37938	2477	1.30	
1981-058D		12561	USSR	19 JUN	724.0	67.4	38655	2007	1.50	
1981-058E		17256	USSR	19 JUN	718.9	98.9	37949	2459	0.30	
1981-059A		12553	US	23 JUN	101.7	98.9	847	828	9.24	
1981-059B	NOAA 7	12559	US	23 JUN	100.8	98.9	802	795	0.07	
1981-059C		12560	US	23 JUN	100.9	98.9	802	795	0.23	
1981-059D		22727	US	23 JUN	100.4	99.2	831	724	0.31	
1981-059E		22728	US	23 JUN	100.2	99.5	901	633	0.00	
1981-061A	EKRAN 7	12564	USSR	25 JUN	1437.0	10.5	35835	35771	0.14	
1981-061F		12851	USSR	25 JUN	1425.7	10.4	35594	35571	2.50	
1981-065A	METEOR 1-31	12585	USSR	10 JUL	96.5	97.9	612	573	2.36	
1981-065B		12586	USSR	10 JUL	96.7	97.9	615	588	7.46	
1981-069A	RADUGA 9	12618	USSR	30 JUL	1435.2	10.3	35776	35760	0.14	
1981-069F		12850	USSR	30 JUL	1474.0	10.7	36615	36434	2.00	
1981-070A	DE 1	12624	US	03 AUG	409.7	88.8	23314	476	0.10	
1981-070E		12679	US	03 AUG	410.8	88.8	22361	480	0.10	
1981-070J		14620	US	03 AUG	393.7	88.8	22463	467	0.05	
1981-070K		14621	US	03 AUG	396.8	88.9	22817	551	0.10	
1981-070L		19478	US	03 AUG	402.8	88.6	22817	560	0.06	
1981-071A	COSMOS 1285	12627	USSR	04 AUG	727.0	67.2	36088	4719	0.60	
1981-071D		12680	USSR	04 AUG	722.7	67.4	35719	4876	5.00	
1981-071E		12993	USSR	04 AUG	727.7	67.3	35979	4864	0.20	
1981-071F		13961	USSR	04 AUG	726.8	68.1	36964	3834	7.09	
1981-073A	FLTSATCOM 5	12635	US	06 AUG	1460.4	8.9	36298	36223	3.10	
1981-074A	COSMOS 1287	12636	USSR	06 AUG	115.7	74.0	1510	1462	0.60	
1981-074B	COSMOS 1288	12637	USSR	06 AUG	115.5	74.0	1490	1462	0.63	
1981-074C	COSMOS 1289	12638	USSR	06 AUG	114.7	74.0	1462	1424	0.74	
1981-074D	COSMOS 1290	12639	USSR	06 AUG	114.9	74.0	1462	1439	0.63	
1981-074E	COSMOS 1291	12640	USSR	06 AUG	115.1	74.0	1462	1456	0.77	
1981-074F	COSMOS 1292	12641	USSR	06 AUG	115.3	74.0	1475	1461	0.75	
1981-074G	COSMOS 1293	12642	USSR	06 AUG	114.6	74.0	1462	1407	0.75	
1981-074H	COSMOS 1294	12643	USSR	06 AUG	114.4	74.0	1462	1390	1.08	
1981-074J		12644	USSR	06 AUG	117.4	74.0	1461	1461	5.95	
1981-075A	INTERCOSMOS	12645	USSR	07 AUG	101.6	81.2	881	788	7.25	
1981-075B		12646	USSR	07 AUG	101.7	81.2	890	792	10.06	
1981-076A	GMS 2	12677	JAPAN	10 AUG	1446.5	9.0	36039	35941	0.50	
1981-077A	COSMOS 1295	12681	USSR	12 AUG	104.6	82.9	1008	944	3.39	
1981-077B		12682	USSR	12 AUG	104.5	82.9	994	944	9.78	
1981-081A	COSMOS 1299	12783	USSR	24 AUG	103.9	65.1	962	926	3.96	
1981-082A	COSMOS 1300	12785	USSR	24 AUG	96.7	82.5	609	589	17.16	
1981-082B		12786	USSR	24 AUG	97.3	82.5	642	614	12.37	

# OBJECTS IN ORBIT

## INTER- NATIONAL DESIGNATION

## NAME

COSMOS 1302

1981-084A

1981-084B

1981-084C

1981-084D

1981-087A

1981-087B

1981-088A

1981-088F

1981-088G

1981-088H

1981-091A

1981-091B

1981-094A

1981-094B

1981-096A

1981-098A

1981-098B

1981-100C

1981-102A

1981-102F

1981-103A

1981-103B

1981-105A

1981-105E

1981-106A

1981-107A

1981-107C

1981-108A

1981-108D

1981-108E

1981-108F

1981-108G

1981-110A

1981-113D

1981-114A

1981-116A

1981-116B

1981-116C

1981-116D

1981-116E

1981-116F

1981-116G

1981-116H

1981-116J

1981-117A

1981-117B

1981-119A

1981-119B

1981-120A

1981-120B

1981-120C

1981-120D

1981-120E

## CATALOG NUMBER

12791

12792

12793

14810

12803

12804

12818

14131

18598

12835

12836

12848

12849

12855

12879

12880

12889

12897

14195

12903

12904

12915

12920

12927

12930

12932

12940

14734

14735

14736

12938

12986

12967

12975

12976

12977

12978

12979

12980

12981

12982

12983

12987

12988

12994

13007

12997

12998

12999

13000

13001

## LAUNCH

## PERIOD MINUTES

## INCL-I- NATION

## APOGEE (KM)

## PERIGEE (KM)

## RCS (SQ.M) NOTES

28 AUG

100.5

74.0

796

771

2.62

28 AUG

100.4

74.0

786

766

8.62

28 AUG

100.0

74.0

759

753

0.01

04 SEP

100.5

74.0

801

767

0.01

04 SEP

103.8

82.9

972

903

2.53

11 SEP

263.7

63.7

13197

1287

16.02

11 SEP

262.4

63.6

13166

1228

0.30

11 SEP

247.2

63.3

12389

951

0.50

18 SEP

251.1

63.7

12703

958

0.13

18 SEP

104.7

82.9

993

958

2.12

21 SEP

105.8

82.5

1672

394

6.27

24 SEP

108.0

82.5

1873

398

13.40

30 SEP

115.9

82.6

35795

35774

9.40

06 OCT

115.8

82.6

1500

1488

29.34

09 OCT

118.7

99.9

2695

1485

11.20

09 OCT

1435.9

10.0

35823

549

12.96

13 OCT

1437.1

10.2

35841

35743

0.14

13 OCT

96.4

81.2

599

571

15.80

13 OCT

96.8

81.2

636

578

16.39

17 OCT

713.8

62.7

39186

969

6.81

30 OCT

733.2

62.8

40166

946

31 OCT

719.0

68.3

34987

5425

1.20

31 OCT

723.2

68.1

35744

4876

0.70

31 OCT

713.6

65.3

36709

3438

13.96

31 OCT

714.7

65.1

36478

3725

0.31

04 NOV

719.9

68.5

35131

5327

17 NOV

696.2

63.5

39039

242

6.33

20 NOV

1438.6

2.6

35851

35819

2.29

28 NOV

117.2

74.0

1632

1479

0.64

28 NOV

117.2

74.0

1629

1480

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1981-120F	RADIO 6	13002	USSR	17 DEC	118.6	83.0	1657	1578	0.72	
1981-120G		13003	USSR	17 DEC	120.8	83.0	1782	1649	8.27	
1981-122A	MARECS A	13010	ESA	20 DEC	1436.1	4.3	35802	35773	0.14	
1981-122B	CAT 4	13011	ESA	20 DEC	536.9	10.4	30745	260	0.20	
1981-123A		13012	USSR	23 DEC	718.0	63.8	38267	2097	1.60	
1981-123D	MOLNIYA 1-52	13016	USSR	23 DEC	695.2	64.0	37371	1865	0.70	
1982 LAUNCHES										
1982-001A	COSMOS 1331	13027	USSR	07 JAN	100.4	74.0	795	757	4.08	
1982-001B		13028	USSR	07 JAN	100.3	74.0	789	758	9.33	
1982-001C		13029	USSR	07 JAN	100.0	74.0	767	745	0.04	
1982-001D		13030	USSR	07 JAN	99.4	74.0	748	712	0.03	
1982-003A	COSMOS 1333	13033	USSR	14 JAN	104.9	82.9	1012	962	5.10	
1982-003B		13034	USSR	14 JAN	104.7	82.9	1005	955	8.40	
1982-004A	RCA SATCOM IV	13035	US	16 JAN	1446.0	1.9	35995	35965	0.60	
1982-006C		13103	US	21 JAN	NO ELEMENTS AVAILABLE					
1982-006D		13104	US	21 JAN	NO ELEMENTS AVAILABLE					
1982-006E		13105	US	21 JAN	NO ELEMENTS AVAILABLE					
1982-006F		13152	US	21 JAN	NO ELEMENTS AVAILABLE					
1982-009A	EKRAN 8	13056	USSR	05 FEB	1441.1	10.0	36010	35758	1.50	
1982-009F		14117	USSR	05 FEB	1426.0	9.9	35747	35428	2.00	
1982-012A	COSMOS 1339	13065	USSR	17 FEB	104.7	82.9	1007	946	2.39	
1982-012B		13066	USSR	17 FEB	104.6	82.9	1007	940	16.17	
1982-013A	COSMOS 1340	13067	USSR	19 FEB	96.6	81.2	605	589	6.88	
1982-013B		13068	USSR	19 FEB	96.7	81.2	624	578	8.35	
1982-014A	WESTAR 4	13069	US	26 FEB	1443.4	1.9	35942	35915	1.20	
1982-015A	MOLNIYA 1-53	13070	USSR	26 FEB	717.7	63.2	38895	1456	1.00	
1982-015D		13075	USSR	26 FEB	730.9	63.4	39472	1525	0.50	
1982-016A		13080	USSR	03 MAR	717.1	67.5	36092	4229	0.80	
1982-016D	COSMOS 1341	13090	USSR	03 MAR	708.9	67.3	36296	3621	1.20	
1982-017A		13083	ITSO	05 MAR	1436.2	4.2	35803	35775	432.80	
1982-019A	INTELSAT 5 F-4	13086	US	06 MAR	NO ELEMENTS AVAILABLE					
1982-019B		13089	US	06 MAR	NO ELEMENTS AVAILABLE					
1982-020A	GORIZONT 5	13092	USSR	15 MAR	1461.5	9.7	36427	36139	1.00	
1982-020F		13899	USSR	15 MAR	1459.9	10.1	36366	36138	5.00	
1982-024A	COSMOS 1344	13110	USSR	24 MAR	104.8	82.9	1005	964	4.43	
1982-024B		13111	USSR	24 MAR	104.7	82.9	1008	950	15.52	
1982-025A	METEOR 2	13113	USSR	25 MAR	103.9	82.5	957	933	8.02	
1982-025B		13114	USSR	25 MAR	104.0	82.5	957	934	7.53	
1982-027A	COSMOS 1346	13120	USSR	31 MAR	96.4	81.2	602	572	8.63	
1982-027B		13121	USSR	31 MAR	96.8	81.2	632	576	5.23	
1982-029A	COSMOS 1348	13124	USSR	07 APR	718.6	68.4	35126	5269	1.20	
1982-029D		13169	USSR	07 APR	705.4	68.1	34966	4775	4.00	
1982-030A	COSMOS 1349	13127	USSR	08 APR	104.8	82.9	1007	963	4.53	
1982-030B		13128	USSR	08 APR	104.7	82.9	999	958	10.32	
1982-031A	INSAT-1A	13129	INDIA	10 APR	1434.2	0.1	35936	35562	0.31	
1982-037A	COSMOS 1354	13148	USSR	28 APR	100.7	74.0	798	783	3.45	
1982-037B		13149	USSR	28 APR	100.5	74.0	793	772	7.88	
1982-037C		14344	USSR	28 APR	100.6	74.1	801	770	0.01	
1982-037D		14811	USSR	28 APR	100.7	74.0	809	773	0.01	
1982-039A	COSMOS 1356	13153	USSR	05 MAY	96.7	81.2	612	587	33.95	
1982-039B		13154	USSR	05 MAY	97.1	81.2	660	582	13.30	

# OBJECTS IN ORBIT

INTER-

NATIONAL  
DESIGNATION

NAME

CATALOG  
NUMBER

SOURCE

LAUNCH

PERIOD  
MINUTES

INCLI-  
NATION

APOGEE  
(KM)

PERIGEE  
(KM)

RCS  
(SQ. M) NOTES

1982-040A	COSMOS 1357	13160	USSR	06 MAY	114.6	74.0	1476	1398	0.64	
1982-040B	COSMOS 1358	13161	USSR	06 MAY	114.8	74.0	1479	1413	0.79	
1982-040C	COSMOS 1359	13162	USSR	06 MAY	115.0	74.0	1479	1429	0.84	
1982-040D	COSMOS 1360	13163	USSR	06 MAY	115.1	74.0	1480	1443	0.83	
1982-040E	COSMOS 1361	13164	USSR	06 MAY	115.3	74.0	1482	1458	0.94	
1982-040F	COSMOS 1362	13165	USSR	06 MAY	115.5	74.0	1493	1464	0.73	
1982-040G	COSMOS 1363	13166	USSR	06 MAY	115.7	74.0	1502	1472	0.80	
1982-040H	COSMOS 1364	13167	USSR	06 MAY	115.9	74.0	1521	1472	0.74	
1982-040J		13168	USSR	06 MAY	117.7	74.0	1686	1469	12.11	
1982-041C		13172	US	11 MAY	NO ELEMENTS AVAILABLE					
1982-043A	COSMOS 1365	13175	USSR	14 MAY	103.6	65.1	979	880	4.23	
1982-043D		13594	USSR	14 MAY	103.3	65.1	957	875	0.16	
1982-044A	COSMOS 1366	13177	USSR	17 MAY	1436.2	9.4	35805	35771	0.14	
1982-044F		14114	USSR	17 MAY	1436.4	9.6	35859	35726	0.14	
1982-045A	COSMOS 1367	13205	USSR	20 MAY	718.8	67.9	35765	4639	1.20	
1982-045D		13215	USSR	20 MAY	704.0	67.2	35907	3766	0.60	
1982-051A	COSMOS 1371	13241	USSR	01 JUN	100.7	74.0	801	781	3.27	
1982-051B		13242	USSR	01 JUN	100.5	74.0	799	762	10.09	
1982-051C		14398	USSR	01 JUN	100.3	74.1	775	771	0.05	
1982-051E		18502	USSR	01 JUN	100.3	74.1	776	773	0.03	
1982-051F		18509	USSR	01 JUN	100.3	74.0	783	763	0.03	
1982-051G		18510	USSR	01 JUN	100.3	74.0	789	761	0.03	
1982-052A	COSMOS 1372	19102	USSR	01 JUN	100.3	74.1	783	759	0.01	
1982-052D		13243	USSR	01 JUN	103.9	64.9	965	920	3.76	
1982-055A	COSMOS 1375	13416	USSR	01 JUN	103.6	64.9	949	906	0.18	
1982-055B		13259	USSR	06 JUN	105.0	65.8	1003	986	0.61	
1982-055BM	TO 055BM				SEE NOTE					
1982-058A	WESTAR 5	13269	US	09 JUN	1451.5	1.4	29+ 36157	36017	2.10	29+
1982-059A	COSMOS 1378	13271	USSR	10 JUN	96.8	82.5	618	593	39.60	
1982-059B		13272	USSR	10 JUN	97.3	82.5	643	615	7.19	
1982-064A	COSMOS 1382	13295	USSR	25 JUN	717.3	68.0	34863	5466	1.00	
1982-064D		13298	USSR	25 JUN	708.4	67.5	34947	4944	1.20	
1982-066A	COSMOS 1383	13301	USSR	29 JUN	105.2	82.9	1023	984	4.47	
1982-066B		13302	USSR	29 JUN	105.1	82.9	1027	969	10.76	
1982-069A	COSMOS 1386	13353	USSR	07 JUL	104.6	83.0	1005	946	4.00	
1982-069B		13354	USSR	07 JUL	104.5	83.0	1008	929	9.06	
1982-072A	LANDSAT 4	13367	US	16 JUL	98.8	98.2	708	696	11.59	
1982-073A	COSMOS 1388	13375	USSR	21 JUL	114.5	74.0	1473	1390	0.95	
1982-073B	COSMOS 1389	13376	USSR	21 JUL	114.7	74.0	1473	1407	1.34	
1982-073C	COSMOS 1390	13377	USSR	21 JUL	114.9	74.0	1473	1424	0.74	
1982-073D	COSMOS 1391	13378	USSR	21 JUL	115.0	74.0	1473	1440	0.59	
1982-073E	COSMOS 1392	13379	USSR	21 JUL	115.2	74.0	1473	1457	0.92	
1982-073F	COSMOS 1393	13380	USSR	21 JUL	115.4	74.0	1480	1468	0.90	
1982-073G	COSMOS 1394	13381	USSR	21 JUL	115.6	74.0	1494	1472	0.84	
1982-073H	COSMOS 1395	13382	USSR	21 JUL	115.8	74.0	1514	1471	0.78	
1982-073J		13386	USSR	21 JUL	117.9	74.0	1708	1463	8.43	
1982-074D		13390	USSR	21 JUL	674.8	62.4	37987	223	0.90	
1982-079A	COSMOS 1400	13402	USSR	05 AUG	96.3	81.2	590	575	17.45	
1982-079B		13403	USSR	05 AUG	96.9	81.2	643	573	6.75	
1982-082A	ANIK D-1	13431	CANADA	26 AUG	1438.3	2.3	35847	35811	1.20	
1982-083A	MOLNIYA 3-19	13432	USSR	27 AUG	718.9	63.9	38831	1578	1.20	
1982-083E		13446	USSR	27 AUG	733.1	64.2	39249	1856	0.60	
1982-087A	ETS 3	13492	JAPAN	03 SEP	107.2	44.6	1226	966	2.09	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1982-087B		13493	JAPAN	03 SEP	105.1	44.6	1007	992	2.66	
1982-087C		13510	JAPAN	03 SEP	106.9	44.6	1217	952	0.02	
1982-087D		14569	JAPAN	03 SEP	106.3	44.8	1146	963	0.08	
1982-092A	COSMOS 1408	13552	USSR	16 SEP	96.7	82.6	616	588	11.27	
1982-092B		13553	USSR	16 SEP	97.3	82.6	646	614	5.50	
1982-093A	EKRAN 9	13554	USSR	16 SEP	1435.5	9.5	35885	35663	0.31	
1982-093F		14115	USSR	16 SEP	1422.2	9.4	35545	35480	1.50	
1982-095A	COSMOS 1409	13585	USSR	22 SEP	718.4	66.7	36670	3715	1.00	
1982-095D		13591	USSR	22 SEP	707.2	65.9	37374	2457	0.70	
1982-096A	COSMOS 1410	13589	USSR	24 SEP	115.9	82.6	1499	1489	9.07	
1982-096B		13590	USSR	24 SEP	115.8	82.6	1497	1488	7.61	
1982-097A	INTELSAT 5F 5	13595	ITSO	28 SEP	1436.1	3.6	35803	35770	0.14	
1982-099A	COSMOS 1412	13600	USSR	02 OCT	103.9	64.8	998	886	4.35	
1982-099E		13653	USSR	02 OCT	103.6	64.8	968	886	0.15	
1982-100A	COSMOS 1413	13603	USSR	12 OCT	673.3	64.8	19075	19061	0.20	
1982-100D	COSMOS 1414	13606	USSR	12 OCT	675.7	64.8	19216	19042	0.50	
1982-100E	COSMOS 1415	13607	USSR	12 OCT	673.5	64.7	19074	19071	0.50	
1982-100F		13608	USSR	12 OCT	283.9	52.2	15592	272	0.10	
1982-100G		13609	USSR	12 OCT	304.8	52.1	16938	313	0.10	
1982-100H		13610	USSR	12 OCT	672.9	64.8	19258	18856	0.31	
1982-102A	COSMOS 1417	13617	USSR	19 OCT	104.7	83.0	1007	953	4.12	
1982-102B		13618	USSR	19 OCT	104.6	83.0	998	951	8.32	
1982-103A	GORIZONT 6	13624	USSR	20 OCT	1434.6	8.8	35775	35738	1.00	
1982-103E		13630	USSR	20 OCT	1435.1	9.1	35817	35716	2.00	
1982-105A	RCA SATCOM-V	13631	US	28 OCT	1436.1	2.5	35794	35780	1.60	
1982-106A		13636	US	30 OCT	1435.9	6.5	36094	35468	0.14	
1982-106B		13637	US	30 OCT	1436.2	3.3	35797	35780	0.20	
1982-106D		13643	US	30 OCT	1449.0	7.8	36209	35868	0.60	
1982-109A	COSMOS 1420	13648	USSR	11 NOV	100.6	74.0	800	768	6.43	
1982-109B		13649	USSR	11 NOV	100.4	74.0	792	763	14.14	
1982-109D		15528	USSR	11 NOV	100.2	74.0	777	759	0.01	
1982-110B	SBS 3	13651	US	11 NOV	1435.8	2.0	35792	35769	9.30	1*
1982-110C	ANIK C-3	13652	CANADA	12 NOV	1436.1	2.1	35798	35778	1.20	
1982-110D		13658	US	11 NOV	627.5	23.8	35471	329	0.30	
1982-110E		13666	US	11 NOV	626.3	23.5	35410	330	2.00	
1982-113A	RADUGA 11	13669	USSR	26 NOV	1473.9	8.5	36708	36337	2.00	
1982-113F		13954	USSR	26 NOV	1475.9	8.8	36664	36459	2.00	
1982-116A	METEOR 2-9	13718	USSR	14 DEC	101.8	81.2	882	802	12.86	
1982-116B		13719	USSR	14 DEC	101.8	81.3	882	795	5.37	
1982-116C		13720	USSR	14 DEC	101.8	81.2	882	802	0.05	
1982-116D		17755	USSR	14 DEC	101.8	81.3	897	793	7.16	
1982-118A		13736	US	21 DEC	100.9	98.6	810	797	6.89	
1982-118C		13738	US	21 DEC	97.6	98.5	642	641	0.16	
1983 LAUNCHES										
1983-001A	COSMOS 1428	13757	USSR	12 JAN	104.6	82.9	999	949	7.73	
1983-001B		13758	USSR	12 JAN	104.5	82.9	988	949	8.23	
1983-001C		14568	USSR	12 JAN	103.3	82.9	931	895	0.03	
1983-002A	COSMOS 1429	13761	USSR	19 JAN	115.8	74.0	1515	1465	0.77	
1983-002B	COSMOS 1430	13762	USSR	19 JAN	115.6	74.0	1496	1465	0.61	
1983-002C	COSMOS 1431	13763	USSR	19 JAN	115.4	74.0	1480	1463	0.91	
1983-002D	COSMOS 1432	13764	USSR	19 JAN	115.2	74.0	1466	1460	0.73	



OBJECTS IN ORBIT

INTER-  
NATIONAL  
DESIGNATION

NAME

CATALOG  
NUMBER

SOURCE

LAUNCH

PERIOD  
MINUTES

INCL -  
NATION

APOGEE  
(KM)

PERIGEE  
(KM)

RCS  
(SO.M)

FOOT -  
NOTES

1983-002E	COSMOS 1433	13765	USSR	19 JAN	115.0	74.0	1466	1443	0.77	
1983-002F	COSMOS 1434	13766	USSR	19 JAN	114.8	74.0	1465	1428	0.77	
1983-002G	COSMOS 1435	13767	USSR	19 JAN	114.6	74.0	1465	1412	0.69	
1983-002H	COSMOS 1436	13768	USSR	19 JAN	114.5	74.0	1464	1397	1.00	
1983-002J		13769	USSR	19 JAN	117.9	74.0	1693	1476	14.86	
1983-003A	COSMOS 1437	13770	USSR	20 JAN	96.5	81.2	604	581	12.91	
1983-003B		13771	USSR	20 JAN	96.8	81.2	637	572	12.54	
1983-004A	IRAS	13777	US	26 JAN	102.9	99.0	903	884	1.68	
1983-004B		13778	US	26 JAN	102.3	100.1	881	851	14.37	
1983-004C		13783	US	26 JAN	102.8	99.0	898	882	0.75	
1983-006A	CS-2A	13782	JAPAN	04 FEB	1448.7	5.8	36078	35987	1.10	
1983-006B		13786	JAPAN	04 FEB	128.3	28.5	3874	220	2.28	
1983-008A		13791	US	09 FEB	NO ELEMENTS	AVAILABLE	AVAILABLE			
1983-008B		13792	US	09 FEB	NO ELEMENTS	AVAILABLE	AVAILABLE			
1983-008C		13834	US	09 FEB	NO ELEMENTS	AVAILABLE	AVAILABLE			
1983-008D		13835	US	09 FEB	NO ELEMENTS	AVAILABLE	AVAILABLE			
1983-008E		13844	US	09 FEB	NO ELEMENTS	AVAILABLE	AVAILABLE			
1983-008F		13845	US	09 FEB	NO ELEMENTS	AVAILABLE	AVAILABLE			
1983-008G		13849	US	09 FEB	NO ELEMENTS	AVAILABLE	AVAILABLE			
1983-008H		13874	US	09 FEB	NO ELEMENTS	AVAILABLE	AVAILABLE			
1983-010A	COSMOS 1441	13818	USSR	16 FEB	96.3	81.1	587	578	17.16	
1983-010B		13819	USSR	16 FEB	96.6	81.1	632	560	7.79	
1983-015A	MOLNIYA 3-20	13875	USSR	11 MAR	718.4	63.9	38314	2069	0.30	
1983-015E		13882	USSR	11 MAR	732.0	64.1	38940	2112	0.60	
1983-016A	EKRAN 10	13878	USSR	12 MAR	1515.4	10.1	37483	37165	1.20	
1983-016F		14086	USSR	12 MAR	1424.4	9.5	35624	35488	1.50	
1983-019A	MOLNIYA 1-56	13890	USSR	16 MAR	720.5	63.9	39043	1442	1.40	
1983-020A		13897	USSR	16 MAR	732.6	63.8	39653	1431	0.60	
1983-020D	ASTRON	13901	USSR	23 MAR	5931.7	34.7	175948	28386	1.90	
1983-021A		13916	USSR	24 MAR	5819.6	35.6	173964	27627	1.70	
1983-022A	COSMOS 1447	13917	USSR	24 MAR	104.7	82.9	1009	952	4.01	
1983-022A		13923	US	28 MAR	104.6	82.9	997	953	11.13	
1983-023A	NOAA 8	13949	USSR	30 MAR	101.0	98.6	817	793	10.05	
1983-023B	COSMOS 1448	13950	USSR	30 MAR	104.7	83.0	1000	955	5.43	
1983-025A	MOLNIYA 1-57	13964	USSR	02 APR	717.8	63.9	39551	947	8.85	
1983-026B		13967	USSR	02 APR	699.3	64.2	38476	802	1.20	
1983-026C	TDRS 1	13969	US	04 APR	1442.1	7.3	35970	960	0.60	
1983-026D		13970	US	04 APR	1089.7	5.1	35375	35839	0.23	
1983-028A	RADUGA 12	13971	US	04 APR	522.3	25.7	29930	22021	0.60	
1983-028F		13974	USSR	08 APR	1435.8	8.3	35787	281	1.10	
1983-030A	RCA SATCOM VI	13983	USSR	08 APR	1439.2	8.3	35952	35774	0.14	
1983-030B		13984	US	11 APR	1442.1	0.9	35948	35744	2.60	
1983-031A		13985	US	11 APR	111.5	25.4	2301	292	13.31	
1983-031B	COSMOS 1452	13991	USSR	12 APR	100.6	74.0	800	774	4.26	
1983-031D		13992	USSR	12 APR	100.5	74.1	785	776	10.16	
1983-037A		14812	USSR	23 APR	100.7	74.1	806	777	0.01	
1983-037B	COSMOS 1455	14032	USSR	23 APR	96.8	82.5	617	592	8.54	
1983-038A		14033	USSR	23 APR	97.3	82.5	645	618	4.86	
1983-038E	COSMOS 1456	14034	USSR	25 APR	717.4	66.6	38464	1871	1.20	
1983-038H		14041	USSR	25 APR	707.3	66.4	38161	1674	0.20	
1983-038J		14297	USSR	25 APR	718.8	66.5	38473	1931	0.14	
1983-038J		14301	USSR	25 APR	789.5	67.0	43591	246	1.16	

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OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SO.M)	FOOT- NOTES
1983-038K	GOES 6	14306	USSR	25 APR	720.6	64.3	39697	795	0.92	
1983-041A		14050	US	28 APR	1436.5	5.2	35809	37784	1.00	
1983-041B		14051	US	28 APR	115.2	25.3	2527	404	13.91	
1983-041C	COSMOS 1459	14069	US	28 APR	1707.4	11.9	49159	32724	20.46	
1983-042A		14057	USSR	06 MAY	104.6	83.0	1011	940	3.15	
1983-042B		14059	USSR	06 MAY	104.5	83.0	1001	938	9.84	
1983-044A	COSMOS 1461	14064	USSR	07 MAY	98.5	65.0	803	574	16.79	
1983-044AA		15707	USSR	07 MAY	96.0	65.0	619	518	0.08	
1983-044EL		18480	USSR	07 MAY	97.9	65.0	754	559	0.01	
1983-047A	INTELSAT 5 F-6	14077	ITSO	19 MAY	1436.1	2.6	35800	35775	286.40	
1983-048A		14084	USSR	24 MAY	104.8	82.9	1004	961	5.63	
1983-048B		14085	USSR	24 MAY	104.6	82.9	1001	953	9.43	
1983-051B	VENERA 15	14096	US	26 MAY	119.1	72.3	2518	758	13.99	
1983-053A		14104	USSR	02 JUN	VENUS ORBIT					
1983-054A		14107	USSR	07 JUN	VENUS ORBIT					
1983-056A	VENERA 16	14112	US	09 JUN	NO ELEMENTS AVAILABLE					
1983-056B		14113	US	09 JUN	NO ELEMENTS AVAILABLE					
1983-056C		14143	US	09 JUN	NO ELEMENTS AVAILABLE					
1983-056D	1983-056E	14144	US	09 JUN	NO ELEMENTS AVAILABLE					
1983-056E		14145	US	09 JUN	NO ELEMENTS AVAILABLE					
1983-056F		14146	US	09 JUN	NO ELEMENTS AVAILABLE					
1983-056G	1983-056H	14180	US	09 JUN	NO ELEMENTS AVAILABLE					
1983-056H		14181	US	09 JUN	NO ELEMENTS AVAILABLE					
1983-057AG		22943	USSR	24 JUN	97.9	97.4	770	542	0.00	
1983-058A	ECS 1	14128	ESA	16 JUN	1434.8	3.8	35773	35748	0.14	
1983-058B		14129	FRG	16 JUN	699.5	27.2	35443	4007	0.30	
1983-058C		14130	ESA	16 JUN	314.6	8.5	17692	193	6.30	
1983-058F	ANIK C2	17331	ESA	16 JUN	116.4	7.6	2730	307	0.31	
1983-059B		14133	CANADA	18 JUN	1436.1	2.0	35796	35780	12.30	1*
1983-059C		14134	INDNSA	18 JUN	1436.2	3.0	35792	35784	0.14	1*
1983-059D	PALAPA B1	14135	US	18 JUN	600.2	22.9	34091	290	0.20	
1983-059E		14136	US	18 JUN	617.7	25.9	34956	338	0.20	
1983-060C		14139	US	20 JUN	NO ELEMENTS AVAILABLE					
1983-061A	COSMOS 1470	14147	USSR	22 JUN	96.9	82.5	626	596	28.10	
1983-061B		14148	USSR	22 JUN	97.4	82.5	650	615	6.02	
1983-063A		14154	US	27 JUN	100.6	82.0	818	754	3.48	
1983-063B	GALAXY 1	14155	US	27 JUN	100.5	82.0	812	749	0.82	
1983-063C		14222	US	27 JUN	99.6	82.4	759	721	0.05	
1983-063D		14223	US	27 JUN	100.8	81.7	841	751	0.05	
1983-065A	GORIZONT 7	14158	US	28 JUN	1436.1	0.0	35797	35777	39.80	
1983-065C		14168	US	28 JUN	245.6	23.2	13013	215	0.20	
1983-066A		14160	USSR	30 JUN	1464.3	7.9	36391	36281	0.70	
1983-066E	PROGNDZ 9	14167	USSR	30 JUN	122.8	46.4	3413	198	1.47	
1983-066F		15141	USSR	30 JUN	1475.2	8.2	36592	36504	2.00	
1983-067A		14163	USSR	01 JUL	NO CURENT ELEMENTS					
1983-069A	COSMOS 1473	14171	USSR	06 JUL	114.4	74.0	1460	1392	0.79	
1983-069B		14172	USSR	06 JUL	114.6	74.0	1460	1409	0.63	
1983-069C		14173	USSR	06 JUL	114.7	74.0	1460	1427	0.81	
1983-069D	COSMOS 1475	14174	USSR	06 JUL	114.9	74.0	1460	1444	0.92	
1983-069E		14175	USSR	06 JUL	115.1	74.0	1462	1459	0.89	
1983-069F		14176	USSR	06 JUL	115.3	74.0	1480	1460	0.71	
1983-069G	COSMOS 1478	14177	USSR	06 JUL	115.5	74.0	1497	1460	0.84	
1983-069H		14178	USSR	06 JUL	115.8	74.0	1517	1461	2.59	
1983-069I		14179	USSR	06 JUL						
1983-069J	COSMOS 1480	14180	USSR	06 JUL						

OBJECTS IN ORBIT

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL-NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT-NOTES
1983-069J		14179	USSR	06 JUL	117.4	74.0	1668	1460	10.25	
1983-070A	COSMOS 1481	14182	USSR	08 JUL	707.3	67.3	36917	2917	0.90	
1983-070D		14191	USSR	08 JUL	707.9	67.3	36696	3172	0.70	
1983-070E		14192	USSR	08 JUL	708.8	67.3	37032	2880	0.30	
1983-070F		20412	USSR	08 JUL	705.8	67.5	36835	2925	0.00	
1983-072A		14189	US	14 JUL	718.0	64.0	20542	19821	0.30	
1983-072B		14190	US	14 JUL	371.8	64.2	20038	1459	0.30	
1983-073A	MOLNIYA 1-58	14199	USSR	19 JUL	448.1	63.5	25838	200	0.20	
1983-075A	COSMOS 1484	14207	USSR	24 JUL	96.0	97.5	593	543	8.97	
1983-075B	TO 075AM				SEE NOTE		30*			30*
1983-077A	TELSTAR 3A	14234	US	28 JUL	1436.2	0.2	35794	35781	23.60	
1983-077C		14236	US	28 JUL	199.9	22.8	9658	237	3.05	
1983-078A		14237	US	31 JUL	NO ELEMENTS AVAILABLE					
1983-078B		14238	US	31 JUL	NO ELEMENTS AVAILABLE					
1983-079A	COSMOS 1486	14240	USSR	03 AUG	100.6	74.1	794	775	3.49	
1983-079B		14241	USSR	03 AUG	100.5	74.1	793	767	7.52	
1983-079D		14813	USSR	03 AUG	100.7	74.0	808	777	0.03	
1983-079E		15756	USSR	03 AUG	99.8	74.1	758	738	0.02	
1983-081A	CS-2B	14248	JAPAN	05 AUG	1457.3	5.1	36210	36191	3.20	
1983-084A	COSMOS 1490	14258	USSR	10 AUG	675.7	64.8	19164	19094	0.40	
1983-084B	COSMOS 1491	14259	USSR	10 AUG	668.4	64.8	19056	18833	1.00	
1983-084C	COSMOS 1492	14260	USSR	10 AUG	676.8	64.8	19170	19143	0.70	
1983-084F		14264	USSR	10 AUG	676.3	64.9	19171	19115	2.60	
1983-084G		14277	USSR	10 AUG	324.1	51.9	18130	369	0.10	
1983-084H		14278	USSR	10 AUG	321.2	52.1	17975	340	0.10	
1983-088A	RADUGA 13	14307	USSR	25 AUG	1466.8	8.0	36447	36323	0.14	
1983-088F		14333	USSR	25 AUG	1475.2	8.2	36610	36487	2.20	
1983-089B	INSAT 1B	14318	INDIA	31 AUG	1437.7	3.6	35824	35811	0.14	1*
1983-089C		14524	US	31 AUG	543.9	24.1	31160	227	0.20	
1983-090A	MOLNIYA 3-21	14313	USSR	30 AUG	716.9	64.4	38445	1864	0.70	
1983-090D		14319	USSR	30 AUG	731.3	64.3	39108	1910	1.00	
1983-094A	RCA SATCOM VII	14328	US	08 SEP	1436.2	0.0	35801	35776	2.30	
1983-094B		14329	US	08 SEP	106.4	25.5	1846	277	13.27	
1983-098A	GALAXY 2	14365	US	22 SEP	1436.1	0.0	35794	35779	17.00	
1983-099A	COSMOS 1500	14372	USSR	28 SEP	96.9	82.5	621	596	26.46	
1983-100A	EKRAN 11	14373	USSR	28 SEP	97.4	82.5	647	616	8.40	
1983-100F		14394	USSR	30 SEP	1436.9	8.6	35815	35788	1.50	
1983-103A	COSMOS 1503	14401	USSR	12 OCT	1425.1	8.6	35650	35492	0.14	
1983-103B		14402	USSR	12 OCT	100.7	74.0	800	779	4.57	
1983-105A	INTELSAT 5 F-7	14421	ITSU	19 OCT	1436.1	3.0	35800	35773	8.15	
1983-108A	COSMOS 1506	14450	USSR	26 OCT	104.6	82.9	1009	944	3.37	
1983-108B		14451	USSR	26 OCT	104.5	82.9	996	946	8.60	
1983-109A	METEOR 2-10	14452	USSR	28 OCT	101.1	81.2	876	742	6.74	
1983-109C		14453	USSR	28 OCT	101.1	81.2	890	735	11.45	
1983-111A	COSMOS 1508	14483	USSR	11 NOV	106.9	82.9	1775	390	0.02	
1983-111B		14484	USSR	11 NOV	104.5	82.9	1568	368	4.44	
1983-113A		14506	US	18 NOV	101.1	98.4	818	801	7.78	
1983-113E		14610	US	18 NOV	97.8	98.6	656	648	0.16	
1983-114A	MOLNIYA 1-59	14516	USSR	23 NOV	719.1	64.2	38678	1742	0.70	
1983-114D		14520	USSR	23 NOV	699.2	64.3	37793	1640	10.00	
1983-115A	COSMOS 1510	14521	USSR	24 NOV	116.0	73.6	1521	1479	15.61	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1983-115B		14522	USSR	24 NOV	115.9	73.6	1517	1478	7.31	
1983-118A	GORIZONT 8	14532	USSR	30 NOV	1465.4	7.4	36462	36254	1.00	
1983-118F		14548	USSR	30 NOV	1435.9	7.5	35979	35583	0.14	
1983-120A	COSMOS 1513	14546	USSR	08 DEC	104.8	82.9	1012	955	3.80	
1983-120B		14547	USSR	08 DEC	104.6	82.9	1010	938	14.61	
1983-122A	COSMOS 1515	14551	USSR	15 DEC	96.9	82.5	619	596	14.76	
1983-122B		14552	USSR	15 DEC	97.4	82.5	644	620	4.84	
1983-123D		14582	USSR	21 DEC	710.8	64.2	39875	134	0.70	
1983-126A	COSMOS 1518	14587	USSR	28 DEC	713.9	66.9	38134	2029	1.00	
1983-127A	COSMOS 1519	14596	USSR	28 DEC	705.5	66.7	37870	1875	0.70	
1983-127B	COSMOS 1520	14590	USSR	29 DEC	675.7	66.5	19150	19108	0.40	
1983-127C	COSMOS 1521	14591	USSR	29 DEC	675.7	66.5	19187	19071	0.60	
1983-127F		14592	USSR	29 DEC	673.4	66.5	19141	19000	0.50	
1983-127G		14595	USSR	29 DEC	673.1	66.5	19150	18975	2.50	
1983-127H		14607	USSR	29 DEC	326.1	52.0	18242	387	0.10	
1983-127J		14608	USSR	29 DEC	328.9	51.5	18508	304	0.80	
1983-127K		21752	USSR	29 DEC	230.9	53.1	11628	548	0.26	
1983-127M		21753	USSR	29 DEC	233.1	52.1	11857	477	0.23	
		21935	USSR	29 DEC	313.5	52.5	17292	526	0.27	

1984 LAUNCHES

1984-001A	COSMOS 1522	14611	USSR	05 JAN	115.4	74.0	1491	1458	0.74	
1984-001B	COSMOS 1522	14612	USSR	05 JAN	114.4	74.0	1459	1394	0.87	
1984-001C	COSMOS 1524	14613	USSR	05 JAN	114.6	74.0	1460	1409	0.54	
1984-001D	COSMOS 1525	14614	USSR	05 JAN	114.7	74.0	1459	1425	1.24	
1984-001E	COSMOS 1526	14615	USSR	05 JAN	114.9	74.0	1459	1440	0.82	
1984-001F	COSMOS 1527	14616	USSR	05 JAN	115.1	74.0	1459	1456	0.87	
1984-001G	COSMOS 1528	14617	USSR	05 JAN	115.3	74.0	1475	1458	0.55	
1984-001H	COSMOS 1529	14618	USSR	05 JAN	115.6	74.0	1510	1458	0.64	
1984-001J	COSMOS 1531	14619	USSR	05 JAN	117.5	74.0	1671	1468	10.59	
1984-003A		14624	USSR	11 JAN	104.9	82.9	1004	978	4.54	
1984-003B		14625	USSR	11 JAN	104.8	82.9	1000	967	12.20	
1984-005A	BS-2A	14659	JAPAN	23 JAN	1453.8	4.9	36191	36072	0.50	
1984-008A	PRC 14	14670	PRC	29 JAN	162.0	36.1	6446	484	9.90	
1984-009A		14675	US	31 JAN	NO ELEMENTS	AVAILABLE				
1984-009C		14677	US	31 JAN	NO ELEMENTS	AVAILABLE				
1984-010A	COSMOS 1535	14679	USSR	02 FEB	104.7	83.0	1012	951	2.57	
1984-010B		14680	USSR	02 FEB	104.6	83.0	1003	948	7.62	
1984-011E		14693	US	06 FEB	95.1	28.2	782	264	2.32	
1984-011F		14694	US	03 FEB	97.7	27.7	1000	298	2.03	
1984-012A		14690	US	05 FEB	NO ELEMENTS	AVAILABLE				
1984-012B		14691	US	05 FEB	NO ELEMENTS	AVAILABLE				
1984-012C		14728	US	05 FEB	NO ELEMENTS	AVAILABLE				
1984-012D		14729	US	05 FEB	NO ELEMENTS	AVAILABLE				
1984-012F		14795	US	05 FEB	NO ELEMENTS	AVAILABLE				
1984-012J		15347	US	05 FEB	NO ELEMENTS	AVAILABLE				
1984-012K		15348	US	05 FEB	NO ELEMENTS	AVAILABLE				
1984-012L		15349	US	05 FEB	NO ELEMENTS	AVAILABLE				
1984-013A	COSMOS 1536	14699	USSR	08 FEB	97.0	82.5	631	602	54.80	
1984-013B		14700	USSR	08 FEB	97.4	82.5	649	616	5.28	
1984-016A	RADUGA 14	14725	USSR	15 FEB	1436.2	7.4	35818	35758	0.14	
1984-016F		17874	USSR	15 FEB	1435.4	7.5	35909	35634	0.14	

## OBJECTS IN ORBIT

INTER-  
NATIONAL  
DESIGNATION

## NAME

CATALOG  
NUMBER

## SOURCE

## LAUNCH

PERIOD  
MINUTESINCLI-  
NATIONAPOGEE  
(KM)PERIGEE  
(KM)RCS  
(SQ.M) FOOT-  
NOTES

1984-019A	COSMOS 1538	14759	USSR	21 FEB	100.6	74.0	800	769	4.16	
1984-019B		14760	USSR	21 FEB	100.5	74.0	801	760	7.35	
1984-019C		15785	USSR	21 FEB	100.0	74.0	767	752	0.01	
1984-019D		18519	USSR	21 FEB	100.0	74.1	769	750	0.01	
1984-021A	LANDSAT 5	14780	US	01 MAR	98.8	98.1	706	698	13.56	
1984-021B	LANDSAT 2	14781	UK	01 MAR	98.0	97.8	669	652	0.84	
1984-022A	COSMOS 1540	14783	USSR	02 MAR	1436.0	8.1	35807	35761	0.14	
1984-022F		14948	USSR	02 MAR	1441.9	8.3	35984	35816	2.00	
1984-023A	INTELSAT 5 F-8	14786	ITSO	05 MAR	1436.2	2.3	35808	35770	0.14	
1984-024A	COSMOS 1541	14790	USSR	06 MAR	717.5	67.3	36014	4325	0.80	
1984-024D		14796	USSR	06 MAR	709.8	67.4	35782	4176	0.60	
1984-027A	COSMOS 1544	14819	USSR	15 MAR	96.8	82.5	618	591	22.07	
1984-027B		14820	USSR	15 MAR	97.4	82.5	646	617	5.60	
1984-028A	EKRAN 12	14821	USSR	16 MAR	1499.1	9.1	37047	36974	2.50	
1984-028D		14828	USSR	16 MAR	624.7	46.6	35418	238	2.50	
1984-028F		15139	USSR	16 MAR	1419.8	8.7	35545	35388	1.90	
1984-029A	MOLNIYA 1-60	14825	USSR	16 MAR	716.5	64.2	40011	277	0.70	
1984-029D		14830	USSR	16 MAR	730.0	64.2	40710	244	0.70	
1984-031A	COSMOS 1546	14867	USSR	29 MAR	1436.3	7.2	35912	35668	0.14	
1984-031D		14887	USSR	29 MAR	566.9	45.3	32280	345	2.21	
1984-031F		14951	USSR	29 MAR	1448.3	7.5	36188	35861	3.10	
1984-033A	COSMOS 1547	14884	USSR	04 APR	717.2	67.5	36507	3819	2.00	
1984-033D		14894	USSR	04 APR	706.6	67.3	36579	3221	0.80	
1984-035A	PRC 15	14899	PRC	08 APR	1435.0	6.1	35796	35733	0.14	
1984-035B		14900	PRC	08 APR	623.8	30.4	35177	435	1.50	
1984-037A		14930	US	14 APR	NO ELEMENTS AVAILABLE					
1984-037B		14931	US	14 APR	NO ELEMENTS AVAILABLE					
1984-041A	GORIZONT 9	14940	USSR	22 APR	1435.4	7.2	35836	35710	0.14	
1984-041D		14943	USSR	22 APR	1460.1	7.4	36316	36192	2.50	
1984-043A	COSMOS 1550	14965	USSR	11 MAY	104.9	83.0	1006	971	3.30	
1984-043B		14966	USSR	11 MAY	104.8	83.0	994	973	8.02	
1984-046A	COSMOS 1553	14973	USSR	17 MAY	104.7	82.9	1003	958	3.18	
1984-046B		14974	USSR	17 MAY	104.6	82.9	1006	942	9.10	
1984-047A	COSMOS 1554	14977	USSR	19 MAY	675.7	66.6	19171	19088	0.60	
1984-047B	COSMOS 1555	14978	USSR	19 MAY	675.7	66.5	19158	19100	0.50	
1984-047C	COSMOS 1556	14979	USSR	19 MAY	676.3	66.5	19162	19126	0.50	
1984-047F		14984	USSR	19 MAY	675.5	66.5	19143	19106	2.00	
1984-047G		15053	USSR	19 MAY	331.9	52.1	18632	371	0.77	
1984-047H		15054	USSR	19 MAY	310.0	51.9	17305	283	0.10	
1984-049A	SPACENET 1	14985	US	23 MAY	1436.1	0.0	35796	35778	18.80	
1984-052A	COSMOS 1559	14988	USSR	28 MAY	115.7	74.0	1507	1468	0.81	
1984-052B	COSMOS 1560	14999	USSR	28 MAY	115.5	74.0	1489	1469	0.55	
1984-052C	COSMOS 1561	15000	USSR	28 MAY	115.4	74.0	1483	1459	0.88	
1984-052D	COSMOS 1562	15001	USSR	28 MAY	115.2	74.0	1475	1450	0.82	
1984-052E	COSMOS 1563	15002	USSR	28 MAY	115.0	74.0	1475	1435	1.01	
1984-052F	COSMOS 1564	15003	USSR	28 MAY	114.8	74.0	1474	1421	0.89	
1984-052G	COSMOS 1565	15004	USSR	28 MAY	114.7	74.0	1474	1405	0.80	
1984-052H	COSMOS 1566	15005	USSR	28 MAY	114.5	74.0	1472	1391	0.74	
1984-052J	COSMOS 1569	15006	USSR	28 MAY	117.6	74.0	1680	1468	13.57	
1984-055A		15027	USSR	06 JUN	716.8	66.1	37578	2729	0.40	
1984-055D		15030	USSR	06 JUN	706.9	66.1	37634	2180	0.60	
1984-056A	COSMOS 1570	15031	USSR	08 JUN	100.7	74.1	799	782	3.82	
1984-056B		15032	USSR	08 JUN	100.5	74.1	796	771	15.30	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- INATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1984-056C		15033	USSR	08 JUN	100.7	74.1	803	778	0.04	
1984-056D		15757	USSR	08 JUN	95.7	74.0	553	552	0.01	
1984-059A		15039	US	13 JUN	718.0	63.9	20331	20032	13.20	
1984-059B		15040	US	13 JUN	202.8	61.9	9996	115	0.30	
1984-062A	COSMOS 1574	15055	USSR	21 JUN	104.8	83.0	1004	963	5.45	
1984-062B		15056	USSR	21 JUN	104.6	83.0	994	960	8.42	
1984-063A		15057	USSR	22 JUN	1435.1	7.2	35782	35750	0.14	
1984-063E	RADUGA 15	15076	USSR	22 JUN	330.4	46.7	18734	172	0.10	
1984-063F		15693	USSR	22 JUN	1394.2	7.0	35033	34890	3.90	
1984-065C		15071	US	25 JUN	NO ELEMENTS AVAILABLE					
1984-067A	COSMOS 1577	15077	USSR	27 JUN	104.7	83.0	1006	953	0.66	
1984-067B		15078	USSR	27 JUN	104.6	83.0	992	955	7.78	
1984-069A	COSMOS 1579	15085	USSR	29 JUN	103.9	65.1	971	914	2.99	
1984-069D		15330	USSR	29 JUN	103.6	65.1	942	913	0.26	
1984-069E		19453	USSR	29 JUN	102.6	65.8	941	819	0.01	
1984-071A	COSMOS 1581	15095	USSR	03 JUL	721.0	67.8	36014	4498	0.70	
1984-071D		15098	USSR	03 JUL	705.6	67.4	35610	4141	1.00	
1984-072A	METEOR 2-11	15099	USSR	05 JUL	104.0	82.5	955	937	6.34	
1984-072B		15100	USSR	05 JUL	104.0	82.5	954	938	9.49	
1984-078A	GORIZONT 10	15144	USSR	01 AUG	1436.9	6.8	35810	35793	1.80	
1984-078F		15181	USSR	01 AUG	1435.1	6.9	35842	35689	0.14	
1984-079A	COSMOS 1586	15147	USSR	02 AUG	717.9	66.4	36751	3607	0.40	
1984-079D		15156	USSR	02 AUG	705.7	66.5	36365	3393	0.60	
1984-080A	GMS 3	15152	JAPAN	02 AUG	1436.0	4.7	35789	35781	0.14	
1984-080C		15157	JAPAN	02 AUG	127.2	28.8	3832	169	3.01	
1984-080E		22266	JAPAN	02 AUG	1443.7	6.6	36509	35359	10.00	
1984-081A	ECS 2	15158	ESA	04 AUG	1457.6	3.0	36247	36165	0.30	
1984-081B	TELECOM 1A	15159	FRANCE	04 AUG	1463.4	2.9	36462	36176	3.40	
1984-081D		15166	ESA	04 AUG	597.7	7.1	33585	667	0.10	
1984-081E		20674	ESA	04 AUG	600.4	7.0	33652	741	0.10	
1984-084A	COSMOS 1589	15171	USSR	08 AUG	115.9	82.6	1500	1490	22.13	
1984-084B		15172	USSR	08 AUG	115.8	82.6	1499	1487	5.35	
1984-085A		15182	USSR	10 AUG	716.0	64.2	38330	1935	1.00	
1984-085D	MOLNIYA 1-61	15188	USSR	10 AUG	731.0	64.4	38957	2044	0.70	
1984-088A		15199	US	16 AUG	939.5	4.8	49672	1120	0.30	
1984-088B	CCE	15200	FRG	16 AUG	2653.4	27.0	113818	402	0.31	
1984-088C	IRM	15201	UK	16 AUG	2659.6	26.9	113417	1002	1.50	
1984-088D	UKS	15202	US	16 AUG	133.9	28.9	4033	545	0.07	
1984-088E		15205	US	16 AUG	132.9	28.7	3945	551	0.20	
1984-088F		15206	US	16 AUG	919.0	28.5	49348	519	0.06	
1984-088G		19008	US	16 AUG	131.6	28.7	3836	551	0.06	
1984-088H		19599	US	16 AUG	132.9	28.7	3949	552	0.09	
1984-089A		15214	USSR	24 AUG	735.2	63.9	40372	836	0.70	
1984-089D	MOLNIYA 1-62	15223	USSR	24 AUG	739.0	64.1	40250	1144	0.60	
1984-090A		15219	USSR	24 AUG	1499.7	8.2	37087	36957	1.20	
1984-090F	EKRAN 13	17875	USSR	24 AUG	1422.1	7.8	35577	35446	2.10	
1984-091A		15226	US	28 AUG	NO ELEMENTS AVAILABLE					
1984-091B		15227	US	28 AUG	NO ELEMENTS AVAILABLE					
1984-093B	SBS 4	15235	US	31 AUG	1436.2	0.7	35798	35779	7.20	1*
1984-093C	SYNCOM IV-2	15236	US	31 AUG	1436.0	4.8	35789	35782	0.14	1*
1984-093D	TELSTAR 3C	15237	US	01 SEP	1436.2	0.0	35793	35782	32.40	1*
1984-093E		15244	US	31 AUG	257.5	27.2	13747	307	1.00	
1984-093F		15245	US	31 AUG	593.3	22.7	33693	325	0.20	

## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1984-093G		15246	US	01 SEP	638.2	24.5	36040	310	0.20	
1984-095A	COSMOS 1593	15259	USSR	04 SEP	675.7	64.9	19174	19084	0.50	
1984-095B		15260	USSR	04 SEP	677.2	64.8	19190	19142	0.20	
1984-095C		15261	USSR	04 SEP	675.7	64.8	19178	19079	1.50	
1984-095F		15264	USSR	04 SEP	675.9	64.8	19208	19060	2.50	
1984-095G		15265	USSR	04 SEP	325.4	52.0	18324	264	0.10	
1984-095H		15266	USSR	04 SEP	329.9	51.8	18581	290	0.10	
1984-096A	COSMOS 1596	15267	USSR	07 SEP	718.9	67.8	35908	4503	0.70	
1984-096D		15270	USSR	07 SEP	703.2	67.5	35406	4224	8.80	
1984-097A		15271	US	08 SEP	NO ELEMENTS AVAILABLE					
1984-097B		15272	US	08 SEP	369.2	64.1	20190	1148	0.40	
1984-100A	COSMOS 1598	15292	USSR	13 SEP	104.9	82.9	1011	965	4.08	
1984-100B		15293	USSR	13 SEP	104.7	82.9	998	966	4.23	
1984-101A	GALAXY 3	15308	US	21 SEP	1436.2	0.0	35800	35777	27.00	
1984-104L		15382	USSR	27 SEP	90.5	65.8	305	289	0.30	
1984-105A	COSMOS 1602	15331	USSR	28 SEP	97.0	82.5	628	597	28.03	
1984-105B		15332	USSR	28 SEP	97.4	82.5	650	615	7.63	
1984-106A	COSMOS 1603	15333	USSR	28 SEP	101.9	71.0	865	829	8.58	
1984-106B		15334	USSR	28 SEP	101.8	71.0	848	843	8.06	
1984-106C		15335	USSR	28 SEP	101.4	66.6	832	818	1.26	
1984-106F		15338	USSR	28 SEP	101.7	66.6	846	832	0.81	
1984-107A	COSMOS 1604	15350	USSR	04 OCT	718.9	67.9	36050	4359	0.60	
1984-107D		15355	USSR	04 OCT	708.1	67.8	35596	4277	0.70	
1984-108B	ERBS	15354	US	05 OCT	96.2	56.9	585	569	12.10	1*
1984-109A	COSMOS 1605	15359	USSR	11 OCT	104.7	82.9	1014	947	3.85	
1984-109B		15360	USSR	11 OCT	104.6	82.9	1005	947	6.85	
1984-110A		15362	US	12 OCT	108.9	89.9	1199	1149	17.04	
1984-111A	COSMOS 1606	15369	USSR	18 OCT	96.9	82.5	623	592	2.20	
1984-111B		15370	USSR	18 OCT	97.3	82.5	647	614	5.11	
1984-112A	COSMOS 1607	15378	USSR	31 OCT	104.1	65.0	994	908	3.21	
1984-112C		15503	USSR	31 OCT	103.8	65.0	967	906	0.23	
1984-113B	ANIK D2	15383	CANADA	09 NOV	1436.1	0.7	35795	35778	0.10	1*
1984-113C	SYNCOM IV-1	15384	US	10 NOV	1461.3	3.1	36413	36144	1.80	
1984-113D		15387	US	09 NOV	615.5	25.5	34789	391	0.20	
1984-113E		15390	US	10 NOV	258.1	27.1	13775	324	0.20	
1984-113F		15390	US	10 NOV	231.8	26.6	11934	310	0.14	
1984-114A	SPACENET 2	15385	US	10 NOV	1436.1	0.0	35790	35779	6.10	
1984-114B	MARECS B2	15386	ESA	10 NOV	1436.2	6.3	35799	35779	2.00	
1984-114C		15388	ESA	10 NOV	598.6	7.4	33956	342	3.90	
1984-115A	NATO III-D	15391	NATO	14 NOV	1436.2	2.2	35796	35779	0.40	
1984-115B		15392	US	14 NOV	115.8	21.5	2312	674	11.85	
1984-115C		15402	US	14 NOV	634.1	22.7	35773	368	0.20	
1984-118A	COSMOS 1610	15398	USSR	15 NOV	104.8	82.9	1010	961	3.41	
1984-118B		15399	USSR	15 NOV	104.7	82.9	1003	953	3.09	
1984-122A		15423	US	04 DEC	NO ELEMENTS AVAILABLE					
1984-123A	NOAA 9	15427	US	12 DEC	101.8	99.0	857	836	8.35	
1984-123B		15440	US	12 DEC	97.7	98.9	649	648	0.05	
1984-124H	MOLNIYA 1-63	15429	USSR	14 DEC	717.2	64.0	38722	1605	1.00	
1984-124I		15439	USSR	14 DEC	733.4	64.4	39492	1630	0.70	
1984-125A	VEGA 1	15432	USSR	15 DEC	HELIOCENTRIC ORBIT					
1984-125D		15447	USSR	15 DEC	HELIOCENTRIC ORBIT					
1984-128A	VEGA 2	15449	USSR	21 DEC	HELIOCENTRIC ORBIT					
1984-128B		15450	USSR	21 DEC	HELIOCENTRIC ORBIT					

OBJECTS IN ORBIT												
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES		
1984-129A		15453	US	22 DEC	NO ELEMENTS AVAILABLE							
1984-129B		15454	US	22 DEC	NO ELEMENTS AVAILABLE							
1985 LAUNCHES												
1985-001A	MS-T5	15464	JAPAN	07 JAN	HELIOCENTRIC ORBIT							
1985-001B		15465	JAPAN	07 JAN	HELIOCENTRIC ORBIT							
1985-003A	COSMOS	1617	USSR	15 JAN	114.0	82.6	1412	1409	2.08			
1985-003B	COSMOS	1618	USSR	15 JAN	114.0	82.6	1411	1404	0.40			
1985-003C	COSMOS	1619	USSR	15 JAN	113.7	82.6	1412	1379	2.95			
1985-003D	COSMOS	1620	USSR	15 JAN	113.8	82.6	1411	1387	0.24			
1985-003E	COSMOS	1621	USSR	15 JAN	113.8	82.6	1411	1392	0.32			
1985-003F	COSMOS	1622	USSR	15 JAN	113.9	82.6	1411	1397	0.43			
1985-003G		15475	USSR	15 JAN	114.7	82.6	1470	1410	8.10			
1985-004A	MOLNIYA 3-23	15476	USSR	16 JAN	717.9	64.8	39732	626	0.70			
1985-004D		15481	USSR	16 JAN	731.7	64.8	40344	696	0.70			
1985-006A	COSMOS	1624	USSR	17 JAN	100.6	74.0	797	777	4.55			
1985-006B		15483	USSR	17 JAN	100.5	74.0	795	764	14.43			
1985-006C		15490	USSR	17 JAN	100.2	74.0	770	767	0.01			
1985-006D		15491	USSR	17 JAN	100.7	74.0	803	776	0.01			
1985-007A	GORIZONT 11	15484	USSR	18 JAN	1435.3	6.3	35790	35750	1.00			
1985-007D		15487	USSR	18 JAN	1397.8	6.2	35111	34956	2.50			
1985-007F		15489	USSR	18 JAN	272.6	47.0	14931	166	1.30			
1985-009A	COSMOS	1626	USSR	24 JAN	96.8	82.5	619	590	11.68			
1985-009B		15495	USSR	24 JAN	97.3	82.5	647	613	3.01			
1985-010B		15543	US	24 JAN	NO ELEMENTS AVAILABLE						1*	
1985-010C		15544	US	24 JAN	NO ELEMENTS AVAILABLE						1*	
1985-010D		15545	US	24 JAN	NO ELEMENTS AVAILABLE						1*	
1985-011A	COSMOS	1627	USSR	01 FEB	104.8	82.9	1013	953	3.67			
1985-011B		15506	USSR	01 FEB	104.7	82.9	1004	952	7.55			
1985-013A	METEOR 2-12	15516	USSR	06 FEB	103.9	82.5	956	931	3.28			
1985-013B		15517	USSR	06 FEB	103.9	82.5	956	933	4.67			
1985-014A		15546	US	08 FEB	NO ELEMENTS AVAILABLE							
1985-014B		15547	US	08 FEB	NO ELEMENTS AVAILABLE							
1985-015A	ARABSAT 1	15560	SA	08 FEB	1434.1	2.5	35774	35722	0.14			
1985-015B	SRTS 1	15561	BRAZIL	08 FEB	1436.2	0.0	35792	35785	0.40			
1985-015C		15562	ESA	08 FEB	574.0	7.2	32664	336	6.30			
1985-016A	COSMOS	1629	USSR	21 FEB	1434.5	6.5	35773	35738	0.80			
1985-016F		15581	USSR	21 FEB	1448.6	6.7	36140	35922	2.00			
1985-020A	COSMOS	1633	USSR	05 MAR	96.8	82.5	613	595	11.70			
1985-020B		15593	USSR	05 MAR	97.3	82.5	639	621	5.55			
1985-021A	GEOSAT	15595	US	13 MAR	100.4	108.1	779	775	13.50			
1985-021B		15596	US	13 MAR	100.2	108.1	794	744	2.55			
1985-021D		15614	US	13 MAR	99.3	108.2	742	707	0.07			
1985-021E		15615	US	13 MAR	100.4	107.8	813	737	0.07			
1985-021F		15616	US	13 MAR	100.3	107.5	841	699	0.05			
1985-022A	COSMOS	1634	USSR	14 MAR	104.7	82.9	1007	954	2.77			
1985-022B		15598	USSR	14 MAR	104.6	82.9	991	960	10.06			
1985-023A	COSMOS	1635	USSR	21 MAR	115.8	74.1	1510	1472	0.62			
1985-023B	COSMOS	1636	USSR	21 MAR	115.6	74.1	1492	1472	0.74			
1985-023C	COSMOS	1637	USSR	21 MAR	115.4	74.1	1485	1463	0.94			
1985-023D	COSMOS	1638	USSR	21 MAR	115.2	74.1	1478	1454	0.94			
1985-023E	COSMOS	1639	USSR	21 MAR	115.1	74.1	1478	1438	0.95			

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## OBJECTS IN ORBIT

INTER-  
NATIONAL  
DESIGNATION

## NAME

CATALOG  
NUMBER

## SOURCE

## LAUNCH

PERIOD  
MINUTESINCLI-  
NATIONAPOGEE  
(KM)PERIGEE  
(KM)RCS  
(SQ.M)FOOT-  
NOTES

1985-023F	COSMOS 1640	15622	USSR	21 MAR	114.9	74.1	1477	1424	0.72	
1985-023G	COSMOS 1641	15623	USSR	21 MAR	114.7	74.1	1478	1409	0.67	
1985-023H	COSMOS 1642	15624	USSR	21 MAR	114.6	74.1	1476	1396	0.75	
1985-023J		15625	USSR	21 MAR	118.0	74.1	1709	1474	20.21	
1985-024A	EKRAN 14	15626	USSR	22 MAR	1519.1	7.8	37464	37326	2.20	
1985-024D		15630	USSR	22 MAR	1422.6	7.3	35579	35462	2.00	
1985-025A	INTELSAT VF10	15629	ITSD	22 MAR	1436.1	1.3	35808	35767	2108.60	
1985-025B		15631	US	22 MAR	288.7	23.1	15975	205	3.10	
1985-028B	ANIK C1	15642	CANADA	13 APR	1436.2	0.0	35794	35782	1.80	1*
1985-028C	SYNCOM IV-3	15643	US	12 APR	1436.1	4.0	35801	35775	1.00	1*
1985-028D		15644	US	13 APR	589.2	23.3	33480	35775	1.00	
1985-028E		16229	US	12 APR	273.4	27.0	14819	326	0.20	
1985-035A	GSTAR 1	15677	US	08 MAY	1436.1	0.0	35797	331	4.00	
1985-035B	TELECOM 1B	15678	FRANCE	08 MAY	1435.5	5.4	35784	35777	5.00	
1985-035C		15679	ESA	08 MAY	456.5	7.0	26294	229	3.90	
1985-035D		15680	ESA	08 MAY	304.9	6.7	16474	782	7.03	
1985-037A	COSMOS 1650	15697	USSR	17 MAY	675.7	64.9	19177	19081	0.40	
1985-037B	COSMOS 1651	15698	USSR	17 MAY	675.6	64.9	19146	19108	0.50	
1985-037C	COSMOS 1652	15699	USSR	17 MAY	675.8	64.9	19153	19110	0.20	
1985-037F		15702	USSR	17 MAY	675.0	64.9	19166	19057	2.50	
1985-037G		15714	USSR	17 MAY	333.2	52.0	18739	349	0.30	
1985-037H		15715	USSR	17 MAY	330.0	52.1	18540	338	0.10	
1985-040A	MOLNIYA 3-24	15738	USSR	29 MAY	717.6	64.1	38895	1449	0.90	
1985-040D		15741	USSR	29 MAY	732.3	64.5	39415	1651	0.60	
1985-041A	COSMOS 1655	15751	USSR	30 MAY	105.0	82.9	1011	974	2.69	
1985-041B		15752	USSR	30 MAY	104.9	82.9	1005	970	7.88	
1985-042A	COSMOS 1656	15755	USSR	30 MAY	101.4	71.1	852	802	23.84	
1985-042D		15772	USSR	30 MAY	101.4	71.1	850	800	19.88	
1985-042E		15773	USSR	30 MAY	101.1	66.6	839	781	0.64	
1985-042F		15774	USSR	30 MAY	101.2	66.6	837	794	1.44	
1985-042G		18764	USSR	30 MAY	100.1	66.6	837	687	0.03	
1985-042H		18765	USSR	30 MAY	101.1	66.6	821	801	0.60	
1985-042J		18766	USSR	30 MAY	102.5	66.6	928	825	0.11	
1985-042K		18767	USSR	30 MAY	104.2	66.6	1083	833	0.06	
1985-042L		18819	USSR	30 MAY	101.7	66.6	878	801	0.01	
1985-045A	COSMOS 1658	15808	USSR	11 JUN	716.7	65.6	36933	3366	0.30	
1985-045D		15811	USSR	11 JUN	709.3	65.9	37069	2864	6.30	
1985-047A	COSMOS 1660	15821	USSR	14 JUN	116.0	73.6	1522	1480	15.75	
1985-047B		15822	USSR	14 JUN	116.0	73.6	1518	1479	4.27	
1985-048B		15824	MEXICO	17 JUN	1436.1	0.0	35795	35778	3.90	1*
1985-048C	MORELOS A	15825	SA	18 JUN	1433.8	1.9	35745	35738	0.14	1*
1985-048D	ARABSAT 1B	15826	US	19 JUN	1436.1	0.0	35792	35781	11.00	1*
1985-048F	TELSTAR 3D	15832	US	17 JUN	624.4	25.1	35208	431	2.55	
1985-048G		15836	US	18 JUN	617.7	26.3	34929	364	0.30	
1985-048H		15837	US	18 JUN	650.8	25.5	36644	354	0.20	
1985-049A	COSMOS 1661	15827	USSR	18 JUN	718.8	67.4	36275	4128	1.50	
1985-049D		15830	USSR	18 JUN	724.8	67.9	36757	3944	8.90	
1985-055A	INTELSAT VA F11	15873	ITSD	30 JUN	1436.2	0.8	35809	36768	3.90	
1985-055B		15874	US	30 JUN	539.8	23.0	30833	332	2.50	
1985-056A		15875	ESA	02 JUL	526.3	7.9	30052	375	10.00	
1985-056B		15876	ESA	02 JUL	569.9	8.0	32300	483	0.31	
1985-056C		17255	ESA	02 JUL	542.0	7.5	30965	317	1.00	
1985-056D		17325	ESA	02 JUL						

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1985-056E		17332	ESA	02 JUL	389.6	7.6	22200	385	0.10	
1985-058A	COSMOS 1666	15889	USSR	08 JUL	96.9	82.5	621	595	19.42	
1985-058B		15890	USSR	08 JUL	97.4	82.5	648	617	6.14	
1985-058C		19241	USSR	08 JUL	96.5	82.5	605	578	0.40	
1985-061A	MOLNIYA 3-25	15909	USSR	17 JUL	713.3	64.7	38334	1797	0.20	
1985-061D		15916	USSR	17 JUL	737.8	64.5	39493	1844	0.60	
1985-064A	COSMOS 1670	15930	USSR	01 AUG	104.1	64.9	1008	892	3.40	
1985-066A	NNSS 30300	15935	US	03 AUG	107.9	89.9	1254	1000	3.65	
1985-066B	NNSS 30240	15936	US	03 AUG	107.9	89.9	1254	1000	1.88	
1985-066C		15938	US	03 AUG	107.9	89.9	1255	1001	1.54	
1985-066D		15950	US	03 AUG	106.5	89.9	1175	955	0.01	
1985-066E		15951	US	03 AUG	106.7	89.9	1187	962	0.03	
1985-066F		16020	US	03 AUG	107.5	90.2	1218	1005	0.06	
1985-066G		17164	US	03 AUG	108.2	89.4	1297	985	0.07	
1985-066H		21878	US	03 AUG	107.8	89.9	1249	997	0.26	
1985-069A	COSMOS 1674	15944	USSR	08 AUG	96.8	82.5	620	594	21.38	
1985-069B		15945	USSR	08 AUG	97.3	82.5	647	615	7.38	
1985-070A	RADUGA 16	15946	USSR	08 AUG	1434.9	6.1	35768	35757	1.20	
1985-070F		15963	USSR	08 AUG	1472.4	6.4	36540	36446	2.00	
1985-071A	COSMOS 1675	15952	USSR	12 AUG	717.3	67.4	36967	3363	0.40	
1985-071D		15955	USSR	12 AUG	708.2	67.3	36746	3135	7.49	
1985-073A	PLANET A	15967	JAPAN	18 AUG						
1985-073C		15969	JAPAN	18 AUG						
1985-074A	MOLNIYA 1-64	15977	USSR	22 AUG	717.8	64.7	38370	1987	0.90	
1985-074D		15983	USSR	22 AUG	732.4	65.0	38924	2148	0.70	
1985-075A	COSMOS 1677	15986	USSR	23 AUG	103.9	64.7	1001	880	3.27	
1985-076B	AUSSAT 1	15993	AUSTRAL	27 AUG	1443.6	0.8	35950	35914	0.14	1*
1985-076C	ASC 1	15994	US	27 AUG	1436.2	0.0	35799	35778	6.30	1*
1985-076D	SYNCOM IV-4	15995	US	29 AUG	1438.3	3.3	35843	35817	0.60	1*
1985-076E		15996	US	27 AUG	629.3	26.3	35482	409	0.30	
1985-076F		16001	US	29 AUG	277.0	27.3	15009	385	0.30	
1985-076G		16007	US	29 AUG	627.5	27.0	35387	416	0.20	
1985-077K	COSMOS 1680	16008	USSR	29 AUG	100.2	74.1	776	757	0.02	
1985-079A		16011	USSR	04 SEP	100.6	74.1	798	774	2.81	
1985-079B		16012	USSR	04 SEP	100.5	74.1	791	768	13.31	
1985-079C		17754	USSR	04 SEP	100.6	74.0	802	773	0.02	
1985-084A	COSMOS 1684	16064	USSR	24 SEP	718.6	66.3	36166	4228	0.60	
1985-084D		16070	USSR	24 SEP	706.0	66.9	35895	3875	1.50	
1985-087A	INTELSAT VA F-12	16101	ITSD	29 SEP	1436.2	0.3	35801	35776	270.70	
1985-087B		16102	US	29 SEP	1490.2	23.1	28187	245	3.50	
1985-088A	COSMOS 1687	16103	USSR	30 SEP	717.6	67.7	36193	4154	1.00	
1985-088D		16106	USSR	30 SEP	703.6	67.6	35788	3863	0.70	
1985-090A	COSMOS 1689	16110	USSR	03 OCT	95.1	97.6	545	496	16.68	
1985-090B		16111	USSR	03 OCT	96.4	97.6	620	547	6.25	
1985-091A	MOLNIYA 3-26	16112	USSR	03 OCT	718.4	64.6	38722	1660	0.70	
1985-091D		16125	USSR	03 OCT	734.0	64.7	39478	1673	0.60	
1985-092B		16116	US	03 OCT						1*
1985-092C		16117	US	03 OCT						1*
1985-092D		16118	US	03 OCT						
1985-092E		16119	US	03 OCT						
1985-093A		16129	US	09 OCT	718.0	64.6	20530	19833	0.90	
1985-093B		16137	US	09 OCT	368.2	64.1	20098	1179	0.20	
1985-094A	COSMOS 1690	16138	USSR	09 OCT	113.7	82.6	1414	1378	2.00	

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(KM)PERIGEE  
(KM)RCS  
(SQ. M)FOOT-  
NOTES

1985-094B	COSMOS 1691	16139	USSR	09 OCT	114.0	82.6	1414	1408	1.81	
1985-094C	COSMOS 1692	16140	USSR	09 OCT	113.8	82.6	1414	1385	0.23	
1985-094D	COSMOS 1693	16141	USSR	09 OCT	113.8	82.6	1414	1390	0.44	
1985-094E	COSMOS 1694	16142	USSR	09 OCT	113.9	82.6	1415	1395	0.29	
1985-094F	COSMOS 1695	16143	USSR	09 OCT	114.0	82.6	1415	1401	0.40	
1985-094G		16144	USSR	09 OCT	114.7	82.6	1468	1413	9.27	
1985-094K		16266	USSR	09 OCT	114.0	82.6	1424	1391	0.13	
1985-094L		16267	USSR	09 OCT	114.9	82.7	1416	1282	0.69	
1985-094M		16268	USSR	09 OCT	114.9	82.7	1512	1388	0.11	
1985-094N		16269	USSR	09 OCT	114.1	82.6	1424	1401	0.05	
1985-094P		16270	USSR	09 OCT	113.7	82.7	1600	1190	0.12	
1985-094R		16271	USSR	09 OCT	113.4	82.6	1414	1402	0.01	
1985-094S		16272	USSR	09 OCT	112.9	82.6	1417	1345	0.21	
1985-094T		17168	USSR	09 OCT	113.7	82.6	1398	1320	0.04	
1985-094U		18282	USSR	09 OCT	113.7	82.6	1404	1387	0.04	
1985-094V		18777	USSR	09 OCT	113.0	82.6	1412	1410	3.28	
1985-097A	COSMOS 1697	19111	USSR	09 OCT	113.7	82.6	1402	1393	0.01	
1985-097B		16181	USSR	22 OCT	101.9	71.0	853	843	5.59	
1985-097C		16182	USSR	22 OCT	101.7	71.0	845	833	25.59	
1985-097D		16389	USSR	22 OCT	104.7	71.0	1123	841	0.12	
1985-097E		16390	USSR	22 OCT	105.1	71.0	1154	839	0.09	
1985-097F		16391	USSR	22 OCT	104.7	71.0	1124	837	0.13	
1985-097G		16392	USSR	22 OCT	104.9	71.0	1140	838	0.10	
1985-098A	COSMOS 1698	16183	USSR	22 OCT	717.6	67.2	36297	4050	1.10	
1985-098D		16186	USSR	22 OCT	707.9	67.4	35916	3947	0.50	
1985-099A	MOLNIYA 1-65	16187	USSR	23 OCT	717.6	64.5	39239	1104	0.40	
1985-099E		16197	USSR	23 OCT	698.0	64.5	38196	1177	0.60	
1985-100A	METEOR 3	16191	USSR	24 OCT	109.3	82.5	1209	1177	9.14	
1985-100B		16194	USSR	24 OCT	110.2	82.6	1246	1220	10.72	
1985-102A	COSMOS 1700	16199	USSR	25 OCT	1436.2	5.9	35800	35775	0.14	
1985-102D		16214	USSR	25 OCT	1431.0	5.8	35772	35601	2.00	
1985-103A	MOLNIYA 1-66	16220	USSR	28 OCT	717.8	64.1	38699	1656	0.70	
1985-103D		16223	USSR	28 OCT	701.1	64.3	37646	1882	0.60	
1985-105D	COSMOS 1701	16235	USSR	09 NOV	717.7	67.2	36974	3375	0.80	
1985-107A	RADUGA 17	16243	USSR	09 NOV	706.2	67.3	36955	2825	0.50	
1985-107F		16250	USSR	15 NOV	1438.0	5.8	35873	35774	0.14	
1985-108A	COSMOS 1703	16339	USSR	15 NOV	1477.0	6.2	36669	36499	2.00	
1985-108B		16262	USSR	22 NOV	96.9	82.5	622	595	15.04	
1985-109B	MORELOS B	16263	USSR	22 NOV	97.4	82.5	650	617	7.41	
1985-109C	AUSSAT 2	16274	MEXICO	27 NOV	1436.1	0.0	35793	35781	10.00	1*
1985-109D	SATCOM KU2	16275	AUSTRAL	27 NOV	1436.1	0.6	35796	35778	0.14	1*
1985-109F		16276	US	28 NOV	1436.2	0.0	35789	35786	2.20	1*
1985-109G		16293	US	27 NOV	636.6	26.1	35896	374	0.20	
1985-109H		16294	US	27 NOV	633.0	26.3	35709	375	0.30	
1985-110A	COSMOS 1704	16295	USSR	28 NOV	616.1	26.2	34869	340	0.20	
1985-110B		16291	USSR	28 NOV	104.7	82.9	1006	959	5.87	
1985-113A	COSMOS 1707	16326	USSR	12 DEC	96.9	82.5	624	953	9.24	
1985-113B		16327	USSR	12 DEC	97.4	82.5	996	595	14.27	
1985-116A	COSMOS 1709	16368	USSR	19 DEC	104.8	82.9	648	616	4.78	
1985-116B		16369	USSR	19 DEC	104.6	82.9	1010	956	5.57	
1985-117A	MOLNIYA 3-27	16393	USSR	24 DEC	712.9	64.5	1003	948	11.36	
1985-117F		16402	USSR	24 DEC	732.6	64.3	38569	1546	0.50	
							39518	1566	0.60	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL-I- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1985-118A	COSMOS 1710	16396	USSR	24 DEC	675.7	66.3	19146	19112	0.40	
1985-118B	COSMOS 1711	16397	USSR	24 DEC	675.7	66.3	19150	19108	0.70	
1985-118C	COSMOS 1712	16398	USSR	24 DEC	676.3	66.3	19157	19130	0.40	
1985-118F		16404	USSR	24 DEC	675.5	66.3	19188	19060	1.50	
1985-118K		16445	USSR	24 DEC	340.2	64.9	19118	412	0.10	
1985-118L		16446	USSR	24 DEC	339.7	64.8	19128	372	0.10	
1985-118M		21960	USSR	24 DEC	330.6	64.9	18341	580	0.52	
1985-119A	METEOR 2-13	16408	USSR	26 DEC	103.9	82.5	956	932	10.09	
1985-119B		16409	USSR	26 DEC	104.0	82.5	956	934	6.24	

## 1986 LAUNCHES

1986-002A	COSMOS 1716	16449	USSR	09 JAN	115.5	74.0	1489	1462	0.85	
1986-002B	COSMOS 1717	16450	USSR	09 JAN	115.8	74.0	1512	1472	0.10	
1986-002C	COSMOS 1718	16451	USSR	09 JAN	115.6	74.0	1494	1472	0.73	
1986-002D	COSMOS 1719	16452	USSR	09 JAN	115.3	74.0	1482	1453	1.57	
1986-002E	COSMOS 1720	16453	USSR	09 JAN	115.1	74.0	1481	1438	0.70	
1986-002F	COSMOS 1721	16454	USSR	09 JAN	114.9	74.0	1481	1425	1.05	
1986-002G	COSMOS 1722	16455	USSR	09 JAN	114.8	74.0	1481	1410	0.93	
1986-002H	COSMOS 1723	16456	USSR	09 JAN	114.6	74.0	1479	1398	0.98	
1986-002J		16457	USSR	09 JAN	117.9	74.0	1693	1479	13.68	
1986-003B	SATCOM KU1	16482	US	12 JAN	1436.2	0.0	35795	35780	4.80	
1986-003C		16483	US	12 JAN	614.2	26.9	34782	332	0.50	1*
1986-005A	COSMOS 1725	16493	USSR	17 JAN	104.8	82.9	1000	965	5.19	
1986-005B		16494	USSR	17 JAN	104.6	82.9	992	960	9.19	
1986-006A	COSMOS 1726	16495	USSR	17 JAN	96.8	82.5	618	590	4.60	
1986-006B		16496	USSR	17 JAN	97.3	82.5	645	615	5.54	
1986-007A	RADUGA 18	16497	USSR	17 JAN	1457.3	5.8	36493	35909	1.20	
1986-007F		16501	USSR	17 JAN	647.7	47.0	36585	252	1.14	
1986-007F		16870	USSR	17 JAN	1472.4	6.1	36626	36362	2.00	
1986-007F		16510	USSR	23 JAN	104.8	82.9	1012	955	3.32	
1986-008A	COSMOS 1727	16511	USSR	23 JAN	104.7	82.9	997	959	10.14	
1986-008B		16511	USSR	23 JAN	104.7	82.9	997	959	10.14	
1986-010A	PRC 18	16526	PRC	01 FEB	1436.3	4.7	35807	35773	0.14	
1986-010B		16528	PRC	01 FEB	626.9	31.0	35311	460	1.20	
1986-011A		16527	USSR	01 FEB	717.6	65.7	36460	3887	1.20	
1986-011A	COSMOS 1729	16533	USSR	01 FEB	705.7	66.2	36007	3750	0.60	
1986-011F		16591	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-014A		16592	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-014B		16592	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-014C		16622	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-014D		16623	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-014E		16624	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-014F		16625	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-014G		16630	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-014H		16631	US	09 FEB	NO	ELEMENTS AVAILABLE				
1986-015A	COSMOS 1732	16593	USSR	11 FEB	116.0	73.6	1523	1478	21.04	
1986-015A		16594	USSR	11 FEB	115.9	73.6	1519	1477	8.99	
1986-015B		16597	JAPAN	12 FEB	1450.4	2.7	36135	35996	0.50	
1986-016A	BS-2B	16600	JAPAN	12 FEB	361.0	28.1	20598	234	0.20	
1986-016C		16609	USSR	12 FEB	92.4	51.6	395	387	299.38	
1986-017A	MIR	16609	USSR	19 FEB	SEE NOTE		31*			31*
1986-017AA	TOO17UA	22819	USSR	19 FEB	92.0	51.6	376	369	0.05	
1986-017HN		16611	USSR	19 FEB	96.8	82.5	618	595	10.00	
1986-018A	COSMOS 1733	16611	USSR	19 FEB	97.3	82.5	642	618	6.58	
1986-018B		16612	USSR	19 FEB	97.3	82.5	642	618	6.58	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1986-019A	SPOT 1	16613	FRANCE	22 FEB	101.3	98.7	823	821	10.72	
1986-019B	VIKING	16614	SWEDEN	22 FEB	261.6	98.8	13531	808	0.10	
1986-019C TO 019VL			ESA	22 FEB	SEE NOTE		32+			32+
1986-022C		16863	USSR	13 MAR	89.5	51.6	253	244	10.07	
1986-024A	COSMOS 1736	16647	USSR	21 MAR	104.4	65.0	995	936	4.83	
1986-024E		16809	USSR	21 MAR	104.2	65.0	971	943	0.19	
1986-026A	GSTAR 2	16649	US	28 MAR	1436.1	0.0	35798	35778	46.00	
1986-026B	SBIS 2	16650	BRAZIL	28 MAR	1436.2	0.0	35791	35786	0.30	
1986-026C		16657	ESA	28 MAR	650.5	7.1	36539	443	1.50	
1986-026F		17253	ESA	28 MAR	535.2	8.6	30403	509	2.59	
1986-027A		17254	ESA	28 MAR	531.8	8.2	30244	485	0.33	
1986-027F	COSMOS 1738	16667	USSR	04 APR	1435.7	5.6	35847	35712	1.00	
1986-030A		16681	USSR	18 APR	1474.1	5.9	36681	36371	1.50	
1986-030B	COSMOS 1741	16682	USSR	18 APR	100.6	74.0	801	773	5.18	
1986-030C		17842	USSR	18 APR	100.5	74.0	791	770	9.01	
1986-030D		17842	USSR	18 APR	100.7	74.0	806	777	0.01	
1986-030E		18274	USSR	18 APR	100.7	74.0	804	778	0.01	
1986-030F		18526	USSR	18 APR	100.1	74.1	792	734	0.01	
1986-030G		18681	USSR	18 APR	100.2	74.0	770	765	0.02	
1986-030H		19235	USSR	18 APR	100.7	74.0	807	778	0.02	
1986-031A	MOLNIYA 3-28	16683	USSR	18 APR	103.9	74.0	947	941	0.01	
1986-031D		16686	USSR	18 APR	717.7	64.6	39076	1274	0.70	
1986-034A	COSMOS 1743	16719	USSR	15 MAY	733.4	64.9	39634	1489	0.60	
1986-034B		16720	USSR	15 MAY	96.9	82.6	622	594	10.39	
1986-037A	COSMOS 1745	16727	USSR	23 MAY	97.4	82.6	647	617	6.49	
1986-037B		16728	USSR	23 MAY	104.8	83.0	1008	960	4.95	
1986-038A	EKRAN 15	16729	USSR	24 MAY	104.6	83.0	998	955	9.96	
1986-038D		16732	USSR	24 MAY	1491.6	6.7	36927	36803	3.10	
1986-038E		16733	USSR	24 MAY	1420.5	6.4	35566	35395	1.50	
1986-039A	METEOR 2-14	16735	USSR	27 MAY	254.4	47.9	13280	559	3.00	
1986-039B		16736	USSR	27 MAY	103.9	82.5	954	935	7.07	
1986-042A	COSMOS 1748	16758	USSR	06 JUN	104.0	82.5	955	934	6.34	
1986-042B		16759	USSR	06 JUN	115.1	74.0	1468	1451	0.68	
1986-042C	COSMOS 1749	16760	USSR	06 JUN	114.4	74.0	1467	1391	0.71	
1986-042D	COSMOS 1750	16761	USSR	06 JUN	114.6	74.0	1468	1405	0.57	
1986-042E	COSMOS 1751	16762	USSR	06 JUN	115.6	74.0	1502	1466	0.79	
1986-042F	COSMOS 1752	16763	USSR	06 JUN	115.4	74.0	1484	1466	0.78	
1986-042G	COSMOS 1753	16764	USSR	06 JUN	115.3	74.0	1474	1460	0.88	
1986-042H	COSMOS 1754	16765	USSR	06 JUN	114.9	74.0	1468	1435	0.80	
1986-042J	COSMOS 1755	16766	USSR	06 JUN	117.7	74.0	1468	1421	0.71	
1986-044A	GORIZONT 12	16769	USSR	10 JUN	1435.1	5.1	1682	1469	12.77	
1986-044F		16797	USSR	10 JUN	1474.4	5.5	35796	35736	0.14	
1986-046A	COSMOS 1758	16791	USSR	12 JUN	97.1	82.5	36575	36490	2.00	
1986-046B		16792	USSR	12 JUN	97.4	82.5	636	603	7.53	
1986-047A	COSMOS 1759	16798	USSR	18 JUN	104.7	82.9	652	614	13.20	
1986-047B		16799	USSR	18 JUN	104.6	82.9	999	963	4.14	
1986-049A	MOLNIYA 3-29	16802	USSR	19 JUN	718.6	64.7	1024	924	10.65	
1986-049D		16805	USSR	19 JUN	718.1	65.0	38815	1581	0.50	
1986-050A	COSMOS 1761	16849	USSR	05 JUL	733.1	65.0	39471	1638	0.60	
1986-050D		16854	USSR	05 JUL	718.5	67.1	36468	39322	0.70	
1986-052A	COSMOS 1763	16860	USSR	16 JUL	710.0	67.3	36184	3787	0.60	
1986-052B		16864	USSR	16 JUL	100.3	74.0	794	749	2.92	
					100.2	74.0	793	744	10.11	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1986-052C		16865	USSR	16 JUL	99.3	74.0	744	707	3.12	
1986-052D		16866	USSR	16 JUL	99.2	74.0	740	704	5.75	
1986-052E		16867	USSR	16 JUL	99.6	74.0	756	719	0.01	
1986-055A	COSMOS 1766	16881	USSR	28 JUL	97.0	82.5	631	601	22.43	
1986-055B		16882	USSR	28 JUL	97.4	82.5	650	617	5.64	
1986-057A	MOLNIYA 1-67	16885	USSR	30 JUL	717.9	64.7	38765	1595	0.70	
1986-057D		16889	USSR	30 JUL	731.7	65.0	39622	1414	0.50	
1986-061A	EGP	16908	JAPAN	12 AUG	115.7	50.0	1497	1479	3.27	
1986-061B	JAS-1	16909	JAPAN	12 AUG	115.7	50.0	1497	1479	0.33	
1986-061C		16910	JAPAN	12 AUG	116.9	50.0	1595	1484	14.54	
1986-062A	COSMOS 1771	16917	USSR	20 AUG	104.2	65.0	1000	908	4.04	
1986-062C		17035	USSR	20 AUG	103.8	65.0	978	902	0.24	
1986-065A	COSMOS 1774	16922	USSR	28 AUG	718.8	65.0	36998	3405	0.40	
1986-065D		16925	USSR	28 AUG	707.0	65.5	36543	3276	0.60	
1986-068A	MOLNIYA 1-68	16934	USSR	05 SEP	717.8	64.6	38643	1710	1.10	
1986-070A		16939	USSR	05 SEP	731.2	64.8	39038	1976	0.60	
1986-070B	COSMOS 1777	16952	USSR	10 SEP	100.6	74.0	802	768	3.41	
1986-070C		16953	USSR	10 SEP	100.4	74.0	784	767	15.35	
1986-071A	COSMOS 1778	16961	USSR	16 SEP	675.7	64.9	19139	19119	0.70	
1986-071B	COSMOS 1779	16962	USSR	16 SEP	675.7	64.9	19133	19125	1.50	
1986-071C	COSMOS 1780	16963	USSR	16 SEP	675.7	64.9	19151	19107	0.50	
1986-071F		16968	USSR	16 SEP	675.2	64.9	19120	19112	25.10	
1986-073A	NDA 10	16969	US	17 SEP	101.0	98.5	819	798	3.13	
1986-073B		16982	US	17 SEP	96.3	98.6	583	578	0.05	
1986-074A	COSMOS 1782	16986	USSR	30 SEP	97.0	82.5	628	605	24.75	
1986-074B		16987	USSR	30 SEP	97.4	82.5	647	619	9.20	
1986-075A	COSMOS 1783	16993	USSR	03 OCT	358.0	64.0	19282	1363	0.60	
1986-075D		16996	USSR	03 OCT	357.0	63.9	19250	1331	0.10	
1986-078A	COSMOS 1785	17031	USSR	15 OCT	719.1	67.0	37013	3408	0.50	
1986-078D		17037	USSR	15 OCT	707.6	67.4	36881	2968	0.30	
1986-079A	MOLNIYA 3-30	17038	USSR	20 OCT	716.9	64.9	38570	1742	0.70	
1986-079D		17041	USSR	20 OCT	699.0	64.8	38048	1376	0.50	
1986-082A	RADUGA 19	17046	USSR	25 OCT	1462.6	5.1	36353	36252	0.14	
1986-082D		17052	USSR	25 OCT	637.1	45.9	36043	252	0.77	
1986-082E		17053	USSR	25 OCT	101.8	46.4	1551	132	0.96	
1986-082F		17065	USSR	25 OCT	1475.5	5.2	36682	36425	1.50	
1986-086A	COSMOS 1791	17066	USSR	13 NOV	104.7	82.9	1008	949	4.13	
1986-086B		17067	USSR	13 NOV	104.5	82.9	997	948	10.70	
1986-086C		18552	USSR	13 NOV	103.7	82.9	955	908	0.02	
1986-088A		17070	US	14 NOV	104.8	89.6	1014	954	2.31	
1986-088B	POLAR BEAR	17071	US	14 NOV	104.8	89.6	1012	954	1.26	
1986-088C		18426	US	14 NOV	105.1	89.1	1050	945	0.03	
1986-088D		18525	US	14 NOV	104.2	89.8	962	951	0.09	
1986-089A	MOLNIYA 1-69	17078	USSR	15 NOV	717.3	64.0	38824	1506	1.30	
1986-089D		17081	USSR	15 NOV	735.8	64.0	39433	1806	0.50	
1986-090A	GDRIZONT 13	17083	USSR	18 NOV	1488.8	4.9	36880	36743	3.10	
1986-090D		17125	USSR	18 NOV	1436.8	4.9	35828	35773	0.14	
1986-090F		17149	USSR	18 NOV	632.9	47.3	35812	268	0.00	
1986-091A	COSMOS 1793	17134	USSR	20 NOV	718.2	67.2	36922	3455	2.20	
1986-091D		17147	USSR	20 NOV	705.8	67.6	36404	3360	1.20	
1986-092A	COSMOS 1794	17138	USSR	21 NOV	115.6	74.0	1497	1464	1.21	
1986-092B	COSMOS 1795	17139	USSR	21 NOV	115.4	74.0	1480	1463	1.18	
1986-092C	COSMOS 1796	17140	USSR	21 NOV	115.2	74.0	1477	1451	0.82	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- ATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1986-092D	COSMOS 1797	17141	USSR	21 NOV	115.0	74.0	1471	1441	1.18	
1986-092E	COSMOS 1798	17142	USSR	21 NOV	114.8	74.0	1470	1426	0.76	
1986-092F	COSMOS 1799	17143	USSR	21 NOV	114.7	74.0	1470	1411	0.77	
1986-092G	COSMOS 1800	17144	USSR	21 NOV	114.5	74.0	1470	1396	0.56	
1986-092H	COSMOS 1801	17145	USSR	21 NOV	114.4	74.0	1468	1383	0.82	
1986-092J		17146	USSR	21 NOV	117.6	74.0	1665	1481	12.62	
1986-093A	COSMOS 1802	17159	USSR	24 NOV	104.9	82.9	1020	958	3.17	
1986-093B		17160	USSR	24 NOV	104.8	82.9	1011	955	10.97	
1986-094A	COSMOS 1803	17177	USSR	02 DEC	115.9	82.6	1500	1494	16.67	
1986-094B		17178	USSR	02 DEC	115.9	82.6	1498	1492	6.61	
1986-094C		20284	USSR	02 DEC	117.3	83.2	1745	1374	0.02	
1986-096A		17181	US	05 DEC	1436.1	0.9	35832	35740	5.10	
1986-097A	COSMOS 1805	17191	USSR	10 DEC	96.9	82.5	622	598	22.47	
1986-097B		17192	USSR	10 DEC	97.3	82.5	644	619	7.22	
1986-098A	COSMOS 1806	17213	USSR	12 DEC	718.3	65.4	36479	3899	0.60	
1986-098D		17216	USSR	12 DEC	705.9	66.1	36097	3667	0.70	
1986-100A	COSMOS 1808	17239	USSR	17 DEC	104.9	82.9	1016	967	3.60	
1986-100B		17240	USSR	17 DEC	104.8	82.9	1008	963	9.96	
1986-100C		18545	USSR	17 DEC	104.1	82.9	967	933	0.02	
1986-101A	COSMOS 1809	17241	USSR	18 DEC	104.1	82.5	960	939	21.08	
1986-101B		17242	USSR	18 DEC	104.1	82.5	960	940	5.22	
1986-101C		17268	USSR	18 DEC	103.6	82.6	952	909	0.05	
1986-101D		17269	USSR	18 DEC	104.1	82.6	965	939	0.01	
1986-101E		17270	USSR	18 DEC	103.9	82.4	948	941	0.06	
1986-101F		17271	USSR	18 DEC	103.4	82.4	940	898	0.11	
1986-101G		17272	USSR	18 DEC	103.3	82.5	921	904	0.01	
1986-101H		17273	USSR	18 DEC	103.2	82.5	918	899	0.01	
1986-101J		17274	USSR	18 DEC	104.1	82.5	975	928	0.01	
1986-101K		17844	USSR	18 DEC	103.2	82.5	924	898	0.01	
1986-101L		18680	USSR	18 DEC	103.3	82.5	924	903	0.01	
1986-103A	MOLNIYA 1-70	17264	USSR	26 DEC	717.8	64.2	39283	1070	0.70	
1986-103D		17267	USSR	26 DEC	698.8	64.4	38093	1321	0.50	
1987 LAUNCHES										
1987-001A	METEOR 2-15	17290	USSR	05 JAN	104.0	82.5	954	936	6.17	
1987-001B		17291	USSR	05 JAN	104.0	82.5	953	938	6.07	
1987-003A	COSMOS 1812	17295	USSR	14 JAN	96.9	82.5	622	599	19.13	
1987-003B		17296	USSR	14 JAN	97.4	82.5	646	619	6.91	
1987-004GR		18273	USSR	15 JAN	90.4	72.8	321	265	0.01	
1987-006A	COSMOS 1814	17303	USSR	21 JAN	100.5	74.1	799	762	4.89	
1987-006B		17304	USSR	21 JAN	100.4	74.1	797	753	9.22	
1987-006C		18257	USSR	21 JAN	100.1	74.0	768	757	0.01	
1987-008A	MOLNIYA 3-31	17328	USSR	22 JAN	717.8	64.1	39069	1285	0.50	
1987-008D		17333	USSR	22 JAN	730.8	64.2	39514	1477	0.60	
1987-009A	COSMOS 1816	17359	USSR	29 JAN	104.8	82.9	1008	958	3.77	
1987-009B		17360	USSR	29 JAN	104.6	82.9	1001	950	11.99	
1987-011A	COSMOS 1818	17369	USSR	01 FEB	100.6	65.0	803	774	8.61	
1987-012B		17481	JAPAN	05 FEB	93.4	31.1	473	411	2.32	
1987-015A		17506	US	12 FEB	NO	ELEMENTS AVAILABLE				
1987-015B		17507	US	12 FEB	NO	ELEMENTS AVAILABLE				
1987-017A	COSMOS 1821	17525	USSR	18 FEB	104.8	82.9	1012	958	3.81	
1987-017B		17526	USSR	18 FEB	104.6	82.9	1006	945	11.49	

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT						
NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)
1987-018A MOS-1	17527	JAPAN	19 FEB	103.2	99.1	909	907	15.26
1987-018B	17528	JAPAN	19 FEB	99.8	97.4	868	625	14.39
1987-020A COSMOS 1823	17535	USSR	20 FEB	116.0	73.6	1522	1476	15.42
1987-020B TO 020D0		USSR	20 FEB	SEE NOTE		33*		33*
1987-022A GOES 7	17561	US	26 FEB	1436.1	1.1	35797	35777	0.10
1987-022B	17562	US	26 FEB	89.7	21.7	342	179	13.03
1987-022C	17563	US	26 FEB	601.4	17.3	34175	272	0.30
1987-024A COSMOS 1825	17566	USSR	03 MAR	96.9	82.5	621	594	7.54
1987-024B	17567	USSR	03 MAR	97.3	82.5	647	615	3.98
1987-026A COSMOS 1827	17582	USSR	13 MAR	113.8	82.6	1408	1393	1.98
1987-026B COSMOS 1828	17583	USSR	13 MAR	113.7	82.6	1409	1381	2.49
1987-026C COSMOS 1829	17584	USSR	13 MAR	114.0	82.6	1412	1408	1.84
1987-026D COSMOS 1830	17585	USSR	13 MAR	113.9	82.6	1408	1405	0.64
1987-026E COSMOS 1831	17586	USSR	13 MAR	113.8	82.6	1408	1388	3.65
1987-026F COSMOS 1832	17587	USSR	13 MAR	113.9	82.6	1408	1398	1.17
1987-026G	17588	USSR	13 MAR	114.6	82.6	1468	1407	3.04
1987-027A COSMOS 1833	17589	USSR	18 MAR	101.9	70.9	854	844	8.58
1987-027B	17590	USSR	18 MAR	101.7	71.0	839	836	7.76
1987-027C	18416	USSR	18 MAR	104.7	71.0	1119	840	0.10
1987-027D	18417	USSR	18 MAR	104.9	71.0	1144	838	0.08
1987-027E	18527	USSR	18 MAR	104.8	71.0	1134	838	0.08
1987-027F	18550	USSR	18 MAR	104.6	71.0	1111	837	0.09
1987-028A RADUGA 20	17611	USSR	19 MAR	1500.6	5.1	37159	36922	1.00
1987-028D	17705	USSR	19 MAR	1442.0	5.2	36011	35791	3.10
1987-029A PALAPA B-2P	17706	INDNSA	20 MAR	1436.2	0.1	35792	35785	0.14
1987-030A KVAANT 1	17845	USSR	31 MAR	92.3	51.6	393	385	238.98
1987-036K	21622	USSR	24 APR	142.0	64.9	4104	1171	0.01
1987-036L	21623	USSR	24 APR	209.1	62.7	10191	395	0.01
1987-036M	21657	USSR	24 APR	149.6	64.9	4756	1157	0.01
1987-036N	21725	USSR	24 APR	150.6	64.6	4471	1524	0.06
1987-038A COSMOS 1842	17911	USSR	27 APR	97.0	82.5	628	602	10.32
1987-038B	17912	USSR	27 APR	97.4	82.5	648	619	4.78
1987-040A	17969	USSR	11 MAY	1474.6	6.6	36658	36416	1.50
1987-040D	17972	USSR	11 MAY	1397.9	6.6	35107	34963	2.50
1987-040E	18111	USSR	11 MAY	537.1	46.9	30892	128	0.77
1987-040F	18112	USSR	11 MAY	597.7	47.0	34107	144	1.88
1987-041A COSMOS 1844	17973	USSR	13 MAY	101.9	70.9	850	844	16.77
1987-041B	17974	USSR	13 MAY	101.6	71.0	846	826	17.74
1987-041C	18410	USSR	13 MAY	105.0	71.0	1146	838	1.20
1987-041D	18411	USSR	13 MAY	104.8	71.0	1128	839	0.13
1987-041E	18412	USSR	13 MAY	104.8	71.0	1130	835	0.11
1987-041F	18476	USSR	13 MAY	105.0	71.0	1153	837	0.10
1987-043A	17997	US	15 MAY	NO ELEMENTS	AVAILABLE			
1987-043B	17998	US	15 MAY	NO ELEMENTS	AVAILABLE			
1987-043C	18007	US	15 MAY	NO ELEMENTS	AVAILABLE			
1987-043D	18008	US	15 MAY	NO ELEMENTS	AVAILABLE			
1987-043E	18009	US	15 MAY	NO ELEMENTS	AVAILABLE			
1987-043F	18010	US	15 MAY	NO ELEMENTS	AVAILABLE			
1987-043G	18024	US	15 MAY	NO ELEMENTS	AVAILABLE			
1987-043H	18025	US	15 MAY	NO ELEMENTS	AVAILABLE			
1987-048A COSMOS 1849	18083	USSR	04 JUN	719.0	67.1	37311	3104	0.60
1987-048D	18086	USSR	04 JUN	706.2	67.3	36711	3068	0.70
1987-049A COSMOS 1850	18095	USSR	09 JUN	100.6	74.0	797	775	3.11



## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1987-049B	COSMOS 1851	18096	USSR	09 JUN	100.5	74.0	792	767	8.37	
1987-050A		18103	USSR	12 JUN	718.4	65.0	36915	3471	0.90	
1987-050D		18106	USSR	12 JUN	707.3	65.4	36383	3452	1.00	
1987-051A	COSMOS 1852	18113	USSR	16 JUN	115.6	74.0	1498	1470	0.82	
1987-051B	COSMOS 1853	18114	USSR	16 JUN	115.4	74.0	1481	1469	0.82	
1987-051C	COSMOS 1854	18115	USSR	16 JUN	115.3	74.0	1475	1456	0.82	
1987-051D	COSMOS 1855	18116	USSR	16 JUN	115.1	74.0	1475	1444	0.62	
1987-051E	COSMOS 1856	18117	USSR	16 JUN	114.9	74.0	1475	1429	0.64	
1987-051F	COSMOS 1857	18118	USSR	16 JUN	114.8	74.0	1474	1415	0.89	
1987-051G	COSMOS 1858	18119	USSR	16 JUN	114.6	74.0	1475	1400	0.79	
1987-051H	COSMOS 1859	18120	USSR	16 JUN	114.4	74.0	1474	1385	0.33	
1987-051J		18121	USSR	16 JUN	117.8	74.0	1684	1476	10.36	
1987-052A	COSMOS 1860	18122	USSR	18 JUN	104.0	65.0	992	900	2.69	
1987-052D		18241	USSR	18 JUL	103.7	65.0	957	906	0.23	
1987-053A		18123	US	20 JUN	101.7	98.8	848	828	13.81	
1987-053B		18127	US	20 JUN	99.7	98.7	749	734	0.22	
1987-053C		18128	US	20 JUN	98.3	98.7	680	673	0.05	
1987-053D		18154	US	20 JUN	97.8	98.7	656	649	0.08	
1987-053E		18159	US	20 JUN	99.7	98.7	749	735	0.14	
1987-054A	COSMOS 1861	18129	USSR	23 JUN	104.9	82.9	997	978	1.11	
1987-054B		18130	USSR	23 JUN	104.6	82.9	989	965	12.57	
1987-054C		18131	USSR	23 JUN	105.0	82.9	1017	969	0.01	
1987-055A	COSMOS 1862	18152	USSR	01 JUL	97.1	82.5	636	603	6.82	
1987-055B		18153	USSR	01 JUL	97.4	82.5	650	615	5.92	
1987-057A	COSMOS 1864	18160	USSR	06 JUL	104.6	82.9	998	951	8.37	
1987-057B		18161	USSR	06 JUL	104.7	82.9	1002	955	3.61	
1987-060A	COSMOS 1867	18187	USSR	10 JUL	100.7	65.0	803	776	17.77	
1987-062A	COSMOS 1869	18214	USSR	16 JUL	97.1	82.5	632	603	5.81	
1987-062B		18215	USSR	16 JUL	97.4	82.5	649	618	5.81	
1987-065C		19033	USSR	01 AUG	115.4	102.1	1503	1442	0.04	
1987-068A	METEOR 2-16	18312	USSR	18 AUG	104.0	82.6	954	938	12.17	
1987-068B		18313	USSR	18 AUG	104.0	82.6	954	939	6.83	
1987-070A	ETS-V	18316	JAPAN	27 AUG	1436.1	2.2	35805	35769	0.14	
1987-073A	EKRAN 16	18328	USSR	04 SEP	1492.5	5.1	36895	36871	2.20	
1987-073D		18331	USSR	04 SEP	1420.4	5.1	35555	35402	1.20	
1987-073E		18332	USSR	04 SEP	456.8	46.7	26234	303	0.10	
1987-074A	COSMOS 1875	18334	USSR	07 SEP	113.7	82.6	1407	1383	2.90	
1987-074B	COSMOS 1876	18335	USSR	07 SEP	114.0	82.6	1413	1406	1.39	
1987-074C	COSMOS 1877	18336	USSR	07 SEP	113.9	82.6	1407	1405	1.86	
1987-074D	COSMOS 1878	18337	USSR	07 SEP	113.9	82.6	1407	1399	1.81	
1987-074E	COSMOS 1879	18338	USSR	07 SEP	113.8	82.6	1406	1395	2.34	
1987-074F	COSMOS 1880	18339	USSR	07 SEP	113.8	82.6	1406	1390	2.21	
1987-074G		18340	USSR	07 SEP	114.6	82.6	1471	1406	5.99	
1987-078A	AUSSAT K3	18350	AUSTRAL	16 SEP	1436.2	0.0	35794	35781	0.14	
1987-078B	ECS 4	18351	ESA	16 SEP	1436.1	0.4	35812	35759	0.14	
1987-078E		18571	ESA	16 SEP	526.8	7.0	30191	268	0.70	
1987-079A	COSMOS 1883	18355	USSR	16 SEP	675.7	66.0	19140	19118	0.70	
1987-079B	COSMOS 1884	18356	USSR	16 SEP	675.7	66.0	19157	19101	0.50	
1987-079C	COSMOS 1885	18357	USSR	16 SEP	675.7	66.0	19156	19101	0.30	
1987-079F		18360	USSR	16 SEP	674.7	66.0	19139	19069	3.90	
1987-079G		18374	USSR	16 SEP	339.6	65.2	18916	546	0.81	
1987-079H		18375	USSR	16 SEP	339.6	65.2	18864	625	1.22	
1987-080A		18361	US	16 SEP	107.1	90.4	1177	1011	2.06	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1987-080B		18362	US	16 SEP	107.2	90.4	1179	1011	1.62	
1987-080C		18363	US	16 SEP	107.2	90.4	1179	1012	1.13	
1987-080E		18365	US	16 SEP	106.9	90.4	1162	1005	0.01	
1987-080F		18530	US	16 SEP	106.2	90.4	1115	990	0.05	
1987-080G		18561	US	16 SEP	106.9	90.4	1160	1009	0.02	
1987-080H		18562	US	16 SEP	107.8	90.2	1260	986	0.17	
1987-084A	COSMOS 1888	18384	USSR	01 OCT	1436.2	4.0	35804	35772	3.20	
1987-084D		18387	USSR	01 OCT	1439.5	4.1	35969	35736	1.90	
1987-087A	COSMOS 1891	18402	USSR	14 OCT	104.8	82.9	1024	948	4.01	
1987-087B		18403	USSR	14 OCT	104.6	82.9	1020	933	8.65	
1987-088A	COSMOS 1892	18421	USSR	20 OCT	96.9	82.5	623	595	4.20	
1987-088B		18422	USSR	20 OCT	97.4	82.5	649	617	2.84	
1987-090A		18441	US	26 OCT	NO ELEMENTS AVAILABLE					
1987-091A	COSMOS 1894	18443	USSR	28 OCT	1436.2	4.1	35802	35776	1.00	
1987-091D		18446	USSR	28 OCT	1434.5	4.2	35846	35665	1.80	
1987-091F		18448	USSR	28 OCT	599.4	46.8	34204	135	1.97	
1987-095A	TVSAT 1	18570	FRG	21 NOV	1452.6	4.3	36151	36066	1.20	
1987-096A	COSMOS 1897	18575	USSR	26 NOV	1435.6	3.8	35790	35763	0.14	
1987-096D		18578	USSR	26 NOV	1431.8	3.9	36216	35186	1.70	
1987-097A		18583	US	29 NOV	NO ELEMENTS AVAILABLE					
1987-097B		18584	US	29 NOV	NO ELEMENTS AVAILABLE					
1987-098A	COSMOS 1898	18585	USSR	01 DEC	100.6	74.0	800	770	4.04	
1987-098B		18586	USSR	01 DEC	100.4	74.0	794	762	3.11	
1987-098C		18697	USSR	01 DEC	100.3	74.0	775	765	0.01	
1987-098D		18698	USSR	01 DEC	100.6	74.0	801	776	0.02	
1987-100A	RADUGA 21	18631	USSR	10 DEC	1436.4	3.9	35793	35789	0.14	
1987-100D		18634	USSR	10 DEC	1392.7	3.9	34997	34867	2.20	
1987-100G		21620	USSR	10 DEC	145.1	46.5	5375	161	1.22	
1987-101A	COSMOS 1900	18665	USSR	12 DEC	99.2	66.1	750	687	3.22	
1987-101A		18701	USSR	21 DEC	717.7	63.5	37478	2873	0.60	
1987-105A	COSMOS 1903	18704	USSR	21 DEC	705.1	64.7	36719	3008	0.50	
1987-105D		18709	USSR	23 DEC	104.8	82.9	1003	964	3.41	
1987-106A	COSMOS 1904	18710	USSR	23 DEC	104.7	82.9	996	960	18.39	
1987-106B		18715	USSR	27 DEC	1501.9	3.6	37239	36890	2.10	
1987-109A	EKRAN 17	18718	USSR	27 DEC	1428.1	3.7	35903	35355	1.50	
1987-109D		18719	USSR	27 DEC	423.6	46.6	24431	179	0.10	
1987-109E										
1988 LAUNCHES										
1988-001A	COSMOS 1908	18748	USSR	06 JAN	97.0	82.5	626	599	12.39	
1988-001B		18749	USSR	06 JAN	97.4	82.5	648	618	9.35	
1988-002A	COSMOS 1909	18788	USSR	15 JAN	114.0	82.6	1410	1408	2.75	
1988-002B	COSMOS 1910	18789	USSR	15 JAN	113.9	82.6	1409	1403	1.55	
1988-002C	COSMOS 1911	18790	USSR	15 JAN	113.9	82.6	1409	1396	1.84	
1988-002D	COSMOS 1912	18791	USSR	15 JAN	113.8	82.6	1409	1391	2.10	
1988-002E	COSMOS 1913	18792	USSR	15 JAN	113.7	82.6	1409	1386	2.18	
1988-002F	COSMOS 1914	18793	USSR	15 JAN	113.7	82.6	1409	1380	1.76	
1988-002G		18794	USSR	15 JAN	114.6	82.6	1469	1408	10.24	
1988-005A	METEOR 2-17	18820	USSR	30 JAN	103.9	82.5	955	932	4.23	
1988-005B		18821	USSR	30 JAN	103.9	82.5	954	934	6.66	
1988-006A		18822	US	03 FEB	101.1	98.5	817	807	3.77	
1988-006D		18955	US	03 FEB	95.6	98.7	549	543	0.18	
1988-006F		18984	US	03 FEB	98.7	98.6	699	691	0.16	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1988-012A	CS-3A	18877	JAPAN	19 FEB	1436.2	0.0	35788	35787	2.29	
1988-012C		18879	JAPAN	19 FEB	370.8	27.7	21215	220	0.20	
1988-012D		20760	JAPAN	19 FEB	522.6	27.0	29623	602	0.30	
1988-013A	COSMOS 1922	18881	USSR	26 FEB	717.7	65.6	36878	3470	0.60	
1988-013C		18883	USSR	26 FEB	705.7	66.2	36479	3279	0.60	
1988-014A		18922	PRC	07 MAR	1436.2	0.5	35789	35786	0.14	
1988-016A	PRC 22	18937	USSR	11 MAR	115.7	74.0	1512	1458	0.14	
1988-016B	COSMOS 1924	18938	USSR	11 MAR	115.5	74.0	1494	1457	0.26	
1988-016C	COSMOS 1925	18939	USSR	11 MAR	115.3	74.0	1477	1458	0.62	
1988-016D	COSMOS 1926	18940	USSR	11 MAR	115.1	74.0	1464	1459	0.66	
1988-016E	COSMOS 1927	18941	USSR	11 MAR	114.9	74.0	1459	1453	0.19	
1988-016F	COSMOS 1928	18942	USSR	11 MAR	114.7	74.0	1458	1442	0.67	
1988-016G	COSMOS 1929	18943	USSR	11 MAR	114.6	74.0	1458	1427	0.40	
1988-016H	COSMOS 1930	18944	USSR	11 MAR	114.4	74.0	1458	1412	0.74	
1988-016I	COSMOS 1931	18945	USSR	11 MAR	117.6	74.0	1684	1396	0.57	
1988-016J	MOLNIYA 1-71	19451	USSR	11 MAR	117.5	74.0	1676	1462	9.94	
1988-017A		18946	USSR	11 MAR	717.6	63.8	39143	1205	0.50	
1988-017B		18949	USSR	11 MAR	695.6	64.0	38044	1208	6.30	
1988-018A	SPACENET 3R	18951	US	11 MAR	1436.0	0.0	35789	35783	25.50	
1988-018B	TELECOM 1C	18952	FRANCE	11 MAR	1436.1	0.0	35790	35783	0.70	
1988-018C	COSMOS 1932	18953	ESA	11 MAR	570.3	7.0	32539	266	10.00	
1988-019A		18957	USSR	14 MAR	104.4	65.0	1008	919	4.83	
1988-019D		19162	USSR	14 MAR	104.0	65.0	977	920	0.29	
1988-020A	COSMOS 1933	18958	USSR	15 MAR	97.1	82.5	629	606	14.06	
1988-020B		18959	USSR	15 MAR	97.4	82.5	643	620	4.31	
1988-021A		18960	INDIA	17 MAR	103.1	98.8	913	894	11.74	
1988-021B	IRS-1A	18961	USSR	17 MAR	102.8	98.8	930	849	5.79	
1988-022A	MOLNIYA 1-72	18980	USSR	17 MAR	717.7	64.8	38228	2121	0.70	
1988-022D		18983	USSR	17 MAR	731.7	64.9	38792	2245	0.70	
1988-023A		18985	USSR	22 MAR	104.6	83.0	1006	945	5.70	
1988-023B	COSMOS 1934	18986	USSR	22 MAR	104.5	83.0	992	947	6.81	
1988-023C		21912	USSR	22 MAR	104.5	83.0	1002	943	0.22	
1988-023D		22919	USSR	22 MAR	104.5	83.0	999	940	0.00	
1988-028A	GORIZONT 15	19017	USSR	31 MAR	1472.0	3.7	36630	36343	2.70	
1988-028D		19020	USSR	31 MAR	1472.7	3.8	36587	36411	2.00	
1988-028E		19036	USSR	31 MAR	640.4	46.4	36344	122	0.54	
1988-028F	COSMOS 1937	19037	USSR	05 APR	621.6	46.4	35148	346	1.01	
1988-029A		19038	USSR	05 APR	100.4	74.0	797	761	3.82	
1988-029B		19039	USSR	05 APR	100.3	74.0	796	751	9.54	
1988-032A	COSMOS 1939	19045	USSR	20 APR	96.4	97.7	602	570	9.75	
1988-032B		19046	USSR	20 APR	97.1	97.7	655	584	16.29	
1988-033A		19070	US	26 APR	108.5	90.3	1301	1013	3.28	
1988-033B	COSMOS 1940	19071	US	26 APR	108.5	90.3	1298	1014	2.00	
1988-033C		19072	US	26 APR	108.5	90.3	1300	1015	0.75	
1988-033D		19077	US	26 APR	108.0	90.3	1270	998	0.03	
1988-033E	COSMOS 1940	19078	US	26 APR	107.6	90.6	1235	994	0.09	
1988-033F		19140	US	26 APR	107.8	90.3	1256	995	0.01	
1988-033G		19141	US	26 APR	109.1	90.1	1376	993	0.06	
1988-034A	COSMOS 1940	19073	USSR	26 APR	1430.4	3.5	35779	35571	0.60	
1988-034D		19076	USSR	26 APR	1438.4	3.7	35937	35724	2.00	
1988-034E		19082	USSR	26 APR	639.3	48.6	36022	387	10.00	
1988-034F	EKARAN 18	19083	USSR	26 APR	649.6	47.3	36714	223	0.31	
1988-036A		19090	USSR	06 MAY	1513.4	4.5	37337	37236	1.50	

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT									
	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT-NOTES	
1988-036E	COSMOS 1943	19094	USSR	06 MAY	1424.1	4.5	35648	35453	2.50		
1988-039A		19119	USSR	15 MAY	101.8	71.0	852	837	19.15		
1988-039B		19120	USSR	15 MAY	101.5	71.0	847	814	23.47		
1988-039C		19125	USSR	15 MAY	104.5	71.0	1106	839	0.10		
1988-039D		19126	USSR	15 MAY	104.7	71.0	1116	841	0.12		
1988-039E	INTELSAT 5A F-13	19127	USSR	15 MAY	105.1	71.0	1152	842	0.11		
1988-039F		19128	USSR	15 MAY	105.0	71.0	1148	843	0.21		
1988-040A		19121	ITSO	17 MAY	1436.0	0.1	35796	35775	335.90		
1988-040B		19122	ESA	17 MAY	633.8	7.7	35667	459	2.50		
1988-043A		19163	USSR	21 MAY	675.7	65.0	19149	19109	0.70		
1988-043B	COSMOS 1946	19164	USSR	21 MAY	675.7	65.0	19141	19117	0.60		
1988-043C		19165	USSR	21 MAY	675.7	65.0	19139	19119	0.40		
1988-043F		19168	USSR	21 MAY	674.5	65.0	19143	19052	2.00		
1988-043G		19169	USSR	21 MAY	339.8	65.3	18778	727	0.45		
1988-043H		19170	USSR	21 MAY	339.9	65.3	18726	783	1.85		
1988-044A	MOLNIYA 3-32	19189	USSR	26 MAY	714.1	64.6	38104	2066	1.10		
1988-044B		19190	USSR	26 MAY	733.0	64.8	38725	2376	0.60		
1988-046A		19195	USSR	30 MAY	116.0	73.6	1520	1481	30.11		
1988-046B		19196	USSR	30 MAY	116.0	73.6	1515	1481	6.28		
1988-050A		COSMOS 1953	19210	USSR	14 JUN	97.1	82.5	637	605	11.92	
1988-050B	19211		USSR	14 JUN	97.4	82.5	650	616	7.86		
1988-051A	19215		ESA	15 JUN	1436.0	1.2	35799	35771	1.30		
1988-051B	19216		US	15 JUN	686.6	57.9	37995	809	0.20		
1988-051C	19217		US	15 JUN	1436.0	0.0	35790	35782	3.50		
1988-051E	METEOSAT OSCAR 13	19219	ESA	15 JUN	592.5	10.0	33692	285	0.20		
1988-051F		19220	ESA	15 JUN	414.2	10.0	23776	282	0.20		
1988-051G		19857	ESA	15 JUN	631.5	6.5	35340	666	4.90		
1988-051H		19951	ESA	15 JUN	633.0	7.9	35303	783	0.31		
1988-052A		19223	US	16 JUN	108.9	90.0	1198	1150	2.14		
1988-053A	COSMOS 1954	19256	USSR	21 JUN	100.5	74.0	796	772	2.75		
1988-053B		19257	USSR	21 JUN	100.4	74.1	794	760	10.82		
1988-053C		19260	USSR	21 JUN	100.3	74.1	779	769	0.01		
1988-053D		19261	USSR	21 JUN	100.4	74.1	784	767	0.01		
1988-056A		19274	USSR	05 JUL	97.1	82.5	632	606	21.41		
1988-056B	OKEAN 1	19275	USSR	05 JUL	97.4	82.5	649	620	8.48		
1988-058A	PHOBOS 1	19281	USSR	07 JUL	MARS ORBIT						
1988-058B		19282	USSR	07 JUL	HELIOCENTRIC ORBIT						
1988-059A		19287	USSR	12 JUL	MARS ORBIT						
1988-059B		19288	USSR	12 JUL	HELIOCENTRIC ORBIT						
1988-062A		19324	USSR	18 JUL	HELIOCENTRIC ORBIT						
1988-062B	COSMOS 1959	19325	USSR	18 JUL	104.6	83.0	1003	951	4.17		
1988-063A		19330	INDIA	21 JUL	104.5	83.0	995	950	12.42		
1988-063B		19331	ESA	21 JUL	1436.1	0.0	35793	35779	7.94		
1988-063C		19332	ESA	21 JUL	425.3	7.3	24469	241	1.20		
1988-063E		20127	ESA	21 JUL	629.9	7.9	35505	418	1.00		
1988-063F	INSAT 1C	20488	ESA	21 JUL	306.3	7.4	16926	423	1.20		
1988-063G		22101	INDIA	21 JUL	286.3	7.9	15646	375	0.51		
1988-064A		19336	USSR	26 JUL	109.3	82.5	1205	1181	12.43		
1988-064B		19337	USSR	26 JUL	109.3	82.5	1205	1180	8.45		
1988-065N		20380	USSR	28 JUL	91.0	65.8	323	319	0.14		
1988-065T	METEOR 3-2	20378	USSR	28 JUL	90.8	65.8	318	308	0.24		
1988-066A		19344	USSR	01 AUG	1436.3	3.2	35803	35778	3.40		
1988-066D		19347	USSR	01 AUG	1459.6	3.3	36382	36109	1.70		

## OBJECTS IN ORBIT

INTER-NATIONAL DESIGNATION		NAME		CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT-NOTES
1988-066E				19348	USSR	01 AUG	412.6	46.5	23770	188	0.10	
1988-069A		MOLNIYA 1-73		19377	USSR	12 AUG	717.8	64.8	38629	1726	1.00	
1988-069D				19380	USSR	12 AUG	730.9	65.1	39260	1737	0.50	
1988-071A		GORIZONT 16		19397	USSR	18 AUG	1440.3	3.2	35919	35816	8.00	
1988-071D				19400	USSR	18 AUG	1432.0	3.3	35785	35628	2.00	
1988-071E				19401	USSR	18 AUG	600.1	46.7	34244	131	10.00	
1988-071F				19402	USSR	18 AUG	222.1	46.8	11363	174	1.00	
1988-074A				19419	US	25 AUG	107.3	89.9	1176	1029	1.88	
1988-074B				19420	US	25 AUG	107.3	89.9	1174	1030	3.65	
1988-074C				19421	US	25 AUG	107.3	89.9	1177	1030	1.04	
1988-074D				19515	US	25 AUG	107.1	89.8	1166	1022	0.09	
1988-074E				19516	US	25 AUG	107.1	89.9	1160	1023	0.05	
1988-074F				19559	US	25 AUG	107.2	89.4	1169	1024	0.04	
1988-074G				19577	US	25 AUG	107.2	90.5	1167	1028	0.02	
1988-076A		COSMOS 1966		19445	USSR	30 AUG	718.8	67.2	37970	2436	1.40	
1988-076D				19448	USSR	30 AUG	705.5	67.4	37241	2505	0.70	
1988-077A				19458	US	02 SEP	NO ELEMENTS AVAILABLE					
1988-077B				19459	US	02 SEP	NO ELEMENTS AVAILABLE					
1988-077C				19490	US	02 SEP	NO ELEMENTS AVAILABLE					
1988-077D				22668	US	02 SEP	NO ELEMENTS AVAILABLE					
1988-077E				22669	US	02 SEP	NO ELEMENTS AVAILABLE					
1988-077F				22818	US	02 SEP	NO CURRENT ELEMENTS					
1988-078A				19460	US	05 SEP	NO ELEMENTS AVAILABLE					
1988-078B				19461	US	05 SEP	NO ELEMENTS AVAILABLE					
1988-080A		FENGYUN 1		19467	PRC	06 SEP	102.7	99.2	936	833	12.05	
1988-080B				19468	PRC	06 SEP	102.7	99.3	894	873	5.56	
1988-081A		GSTAR 3		19483	US	08 SEP	1436.1	5.5	35792	35781	19.20	
1988-081B		SBS 5		19484	US	08 SEP	1436.2	0.0	35799	35779	6.80	
1988-081C				19485	ESA	08 SEP	409.4	7.4	23523	249	2.90	
1988-085A		COSMOS 1970		19501	USSR	16 SEP	675.7	65.7	19159	19099	0.40	
1988-085B		COSMOS 1971		19502	USSR	16 SEP	675.7	65.7	19157	19101	0.50	
1988-085C		COSMOS 1972		19503	USSR	16 SEP	675.7	65.7	19145	19113	0.60	
1988-085E				19505	USSR	16 SEP	674.9	65.7	19126	19090	25.10	
1988-085F				19535	USSR	16 SEP	339.2	65.4	18793	672	0.10	
1988-085G				19537	USSR	16 SEP	339.2	65.3	18754	713	1.41	
1988-085H				21751	USSR	16 SEP	210.6	65.0	9780	912	0.33	
1988-086A		CS-3B		19508	JAPAN	16 SEP	1436.2	0.0	35790	35787	0.14	
1988-086C				19558	JAPAN	16 SEP	629.3	27.9	35800	95	0.00	
1988-089A		NOAA 11		19531	US	24 SEP	101.9	99.1	857	841	16.74	
1988-089B				19532	US	24 SEP	97.7	98.9	651	647	0.08	
1988-090A		MOLNIYA 3-33		19541	USSR	29 SEP	716.3	65.0	38414	1867	0.50	
1988-090D				19544	USSR	29 SEP	698.2	64.8	37514	1867	0.80	
1988-091B		TDRS 3		19548	US	29 SEP	1435.9	0.6	35795	35772	1093.60	1*
1988-091C				19549	US	29 SEP	600.6	26.6	34093	309	1.00	
1988-091D				19550	US	29 SEP	1433.4	2.5	35812	35655	1.20	
1988-092A		COSMOS 1974		19554	USSR	03 OCT	705.4	64.6	37320	3074	1.00	
1988-092D				19557	USSR	03 OCT	705.4	64.6	36671	3072	0.70	
1988-093A		COSMOS 1975		19573	USSR	11 OCT	97.1	82.5	636	604	14.62	
1988-093B				19574	USSR	11 OCT	97.4	82.5	649	616	1.91	
1988-093C				20471	USSR	11 OCT	96.0	82.5	579	554	0.13	
1988-095A		RADUGA 22		19596	USSR	20 OCT	1436.4	2.9	35798	35784	0.14	
1988-095D				19600	USSR	20 OCT	602.6	46.6	34363	144	0.50	
1988-095E				19601	USSR	20 OCT	545.2	46.6	31321	138	0.50	

INTER-  
NATIONAL  
DESIGNATION

NAME

CATALOG  
NUMBER

SOURCE

LAUNCH

PERIOD  
MINUTES

INCLIN-  
ATION

APOGEE  
(KM)

PERIGEE  
(KM)

RCS  
(SQ. M)

FOOT-  
NOTES

OBJECTS IN ORBIT

1988-095F		19777	USSR	20 OCT	1470.4	3.2	36520	36389	2.50	
1988-096A	COSMOS 1977	19608	USSR	25 OCT	717.7	64.7	37085	3263	1.70	
1988-096D		19611	USSR	25 OCT	704.9	65.4	36560	3158	1.50	
1988-098A	TDF-1	19621	FRANCE	28 OCT	1436.2	0.1	35792	35784	3.20	
1988-098B		19622	ESA	28 OCT	557.1	3.9	31787	309	1.20	
1988-098C		20132	ESA	26 OCT	339.4	3.8	19145	335	1.20	
1988-099A		19625	US	06 NOV	NO ELEMENTS AVAILABLE					
1988-099B		19626	US	06 NOV	NO ELEMENTS AVAILABLE					
1988-102A	COSMOS 1980	19649	USSR	23 NOV	101.8	71.0	849	842	21.34	
1988-102B		19650	USSR	23 NOV	101.7	71.0	852	828	18.05	
1988-102C		19656	USSR	23 NOV	105.1	71.0	1159	841	0.13	
1988-102D		19657	USSR	23 NOV	105.1	71.0	1158	838	0.10	
1988-102E		19658	USSR	23 NOV	104.9	71.0	1138	839	0.08	
1988-102F		19659	USSR	23 NOV	104.7	71.0	1122	838	0.11	
1988-102H		19813	USSR	23 NOV	105.1	71.0	1162	839	0.06	
1988-102J		20301	USSR	23 NOV	101.9	71.0	858	835	0.11	
1988-106B		19671	US	02 DEC	NO ELEMENTS AVAILABLE					
1988-108A	EKRAN 19	19683	USSR	08 DEC	1436.3	2.9	35804	35778	0.14	
1988-108D		19686	USSR	08 DEC	1418.5	3.0	35501	35381	2.00	
1988-109A	SKYNET 4B	19687	UK	11 DEC	1435.5	1.3	35792	35756	7.20	
1988-109B	ASTRA 1A	19688	LUXBRG	11 DEC	1436.1	0.0	35831	35741	0.14	
1988-109C		19689	ESA	11 DEC	638.4	7.0	35921	439	1.50	
1988-111A	PRC 25	19710	PRC	22 DEC	1436.2	0.1	35791	35787	0.14	
1988-112A	MOLNIYA 3-34	19713	USSR	22 DEC	718.3	63.9	39481	899	0.60	
1988-112D		19716	USSR	22 DEC	696.1	64.0	38438	841	0.60	
1988-113H		19764	USSR	23 DEC	94.0	73.5	473	464	4.69	
1988-115A	MOLNIYA 1-74	19730	USSR	28 DEC	717.9	64.9	39002	1358	0.80	
1988-115D		19733	USSR	28 DEC	695.7	64.9	37777	1483	0.40	

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1989 LAUNCHES

1989-001A	COSMOS 1987	19749	USSR	10 JAN	675.7	64.9	19143	19116	0.20	
1989-001B	COSMOS 1988	19750	USSR	10 JAN	675.7	65.0	19147	19111	1.20	
1989-001C	COSMOS 1989	19751	USSR	10 JAN	675.5	64.9	19152	19097	0.10	
1989-001E		19753	USSR	10 JAN	675.5	65.0	19154	19095	0.14	
1989-001F		19754	USSR	10 JAN	674.7	64.9	19128	19079	2.50	
1989-001G		19755	USSR	10 JAN	339.6	65.3	18712	780	1.41	
1989-001H		19856	USSR	10 JAN	339.6	65.4	18725	766	1.91	
1989-004A		19765	USSR	26 JAN	1436.1	2.8	35788	35783	0.14	
1989-004E	GORIZONT 17	19771	USSR	26 JAN	273.2	46.7	14945	193	0.10	
1989-004F		19776	USSR	26 JAN	1469.5	2.9	36537	36337	20.00	
1989-005A	COSMOS 1992	19769	USSR	26 JAN	100.5	74.0	798	764	4.70	
1989-005B		19770	USSR	26 JAN	100.3	74.0	776	769	9.06	
1989-005C		19831	USSR	26 JAN	100.3	74.1	784	757	0.01	
1989-005D		19945	USSR	26 JAN	100.5	74.1	803	764	0.01	
1989-006A	INTELSAT 5A F-15	19772	ITSO	27 JAN	1436.2	0.0	35801	35775	380.40	
1989-006B		19773	ESA	27 JAN	636.8	8.6	35770	512	1.00	
1989-009A	COSMOS 1994	19785	USSR	10 FEB	113.9	82.6	1413	1393	2.00	
1989-009B	COSMOS 1995	19786	USSR	10 FEB	114.1	82.6	1414	1410	1.80	
1989-009C	COSMOS 1996	19787	USSR	10 FEB	114.0	82.6	1413	1405	1.80	
1989-009D	COSMOS 1997	19788	USSR	10 FEB	113.9	82.6	1413	1398	2.17	
1989-009E	COSMOS 1998	19789	USSR	10 FEB	113.8	82.6	1413	1388	2.58	
1989-009F	COSMOS 1999	19790	USSR	10 FEB	113.7	82.6	1412	1382	1.98	

OBJECTS IN ORBIT

INTER-NATIONAL DESIGNATION		NAME		CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOTNOTES
1989-009G		COSMOS 2001	19791	USSR	10 FEB	114.7	82.6	1469	1414	4.94		
1989-011A			19796	USSR	14 FEB	719.0	66.5	37977	2437	2.20		
1989-011D			19799	USSR	14 FEB	705.7	67.2	37350	2406	0.20		
1989-013A			19802	US	14 FEB	718.0	55.1	20276	20087	0.60		
1989-014A		MOLNIYA 1-75	19807	USSR	15 FEB	717.9	63.5	38249	2111	0.30		
1989-014D			19810	USSR	15 FEB	694.4	63.5	37242	1953	0.70		
1989-016A			19822	JAPAN	21 FEB	186.0	75.1	8558	273	5.72		
1989-016C			19824	JAPAN	21 FEB	169.8	75.1	7293	264	0.71		
1989-016K		EXOS-D	19952	JAPAN	21 FEB	134.8	75.6	4412	251	0.07		
1989-016M			19963	JAPAN	21 FEB	160.4	75.2	6534	269	0.07		
1989-016N			20021	JAPAN	21 FEB	147.3	74.3	5457	266	0.12		
1989-016P			20034	JAPAN	21 FEB	89.8	74.8	364	164	0.04		
1989-017A		COSMOS 2004	19826	USSR	22 FEB	104.9	82.9	1015	968	4.58		
1989-017B			19827	USSR	22 FEB	104.8	83.0	1008	962	8.45		
1989-018A			19851	USSR	28 FEB	104.0	82.5	956	934	7.86		
1989-018B			19852	USSR	28 FEB	104.0	82.5	960	934	10.42		
1989-020A		UCSAT-1	19874	JAPAN	06 MAR	1436.2	0.0	35794	35781	36.00		
1989-020B			19876	ESA	06 MAR	1436.1	0.3	35796	35776	0.90		
1989-020E			20800	UK	06 MAR	1433.5	3.1	36272	35200	0.31		
1989-021C			19883	US	13 MAR	1436.0	0.0	35791	35787	544.40		
1989-021D		TDRS 4	19884	US	13 MAR	535.2	26.4	30624	290	1.20		
1989-025A			19913	US	13 MAR	1431.5	5.9	35802	35589	0.60		
1989-025B			19902	USSR	24 MAR	114.4	74.0	1469	1391	0.89		
1989-025C			19903	USSR	24 MAR	114.6	74.0	1470	1406	0.88		
1989-025D		COSMOS 2010	19904	USSR	24 MAR	114.8	74.0	1469	1422	0.75		
1989-025E			19905	USSR	24 MAR	115.0	74.0	1470	1437	0.76		
1989-025F			19906	USSR	24 MAR	115.1	74.0	1469	1454	0.81		
1989-025G			19907	USSR	24 MAR	115.3	74.0	1477	1463	0.73		
1989-025H		COSMOS 2014	19908	USSR	24 MAR	115.5	74.0	1488	1468	0.70		
1989-025I			19909	USSR	24 MAR	115.7	74.0	1508	1467	0.73		
1989-025J			19910	USSR	24 MAR	117.7	74.0	1683	1471	12.31		
1989-027A			19919	SWEDEN	02 APR	1436.1	0.0	35807	35765	3.10		
1989-027B		COSMOS 2016	19920	ESA	02 APR	313.0	4.0	17331	454	10.00		
1989-028A			19921	USSR	04 APR	104.7	83.0	1010	952	4.64		
1989-028B			19922	USSR	04 APR	104.6	83.0	1000	947	10.07		
1989-030A			19928	USSR	14 APR	1436.0	2.6	35789	35781	3.70		
1989-030D		RADUGA 23	19931	USSR	14 APR	1470.5	2.8	36533	36383	2.20		
1989-030F			19933	USSR	14 APR	597.5	46.8	34087	154	0.00		
1989-033B			19969	US	04 MAY	VENUS ORBIT						
1989-033C			19970	US	04 MAY	422.0	27.9	24234	283	1.50		
1989-033D		MAGELLAN	19971	US	04 MAY	VENUS ORBIT						
1989-035A			19976	US	10 MAY	NO ELEMENTS AVAILABLE						
1989-035B			19977	US	10 MAY	NO ELEMENTS AVAILABLE						
1989-035C			19983	US	10 MAY	NO ELEMENTS AVAILABLE						
1989-039A		COSMOS 2022	20024	USSR	31 MAY	675.7	65.5	19142	19116	0.90		
1989-039B			20025	USSR	31 MAY	675.7	65.5	19170	19087	0.60		
1989-039C			20026	USSR	31 MAY	675.4	65.5	19146	19095	0.10		
1989-039E			20028	USSR	31 MAY	674.5	65.5	19156	19042	2.00		
1989-039F		COSMOS 2024	20044	USSR	31 MAY	675.4	65.5	19147	19094	0.10		
1989-039G			20081	USSR	31 MAY	339.4	65.3	18685	792	0.10		
1989-039H			20082	USSR	31 MAY	339.4	65.3	18686	792	0.10		
1989-041A			20040	JAPAN	05 JUN	1443.8	2.5	35944	35931	0.60		
1989-041B		SUPERBIRD A	20041	FRG	05 JUN	1436.1	0.0	35889	35683	0.14		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1989-041C	COSMOS 2026	20042	ESA	05 JUN	398.4	6.3	22908	207	6.30	
1989-042A		20045	USSR	07 JUN	104.6	82.9	1007	947	5.31	
1989-042B		20046	USSR	07 JUN	104.5	82.9	998	946	9.47	
1989-043A		20052	USSR	08 JUN	717.8	64.8	38918	1436	1.00	
1989-043D		20055	USSR	08 JUN	733.3	65.1	39610	1508	1.00	
1989-044A	MOLNIYA 3-35	20061	US	10 JUN	718.0	54.8	20514	19849	1.20	
1989-046A		20066	US	14 JUN	NO ELEMENTS	AVAILABLE				
1989-046B		20067	US	14 JUN	NO ELEMENTS	AVAILABLE				
1989-046C		20068	US	14 JUN	NO ELEMENTS	AVAILABLE				
1989-046D		20069	US	14 JUN	NO ELEMENTS	AVAILABLE				
1989-046E	RADUGA 1-1	20319	US	14 JUN	NO ELEMENTS	AVAILABLE				
1989-048A		20083	USSR	21 JUN	1436.2	2.5	35796	35781	0.14	
1989-048D		20086	USSR	21 JUN	1471.1	2.6	36564	36372	31.60	
1989-048F		20094	USSR	21 JUN	445.3	46.9	25619	258	0.40	
1989-050A		20103	USSR	04 JUL	104.8	83.0	1011	954	7.18	
1989-050B	NADEZHDA-1	20104	USSR	04 JUL	104.6	83.0	1007	941	10.70	
1989-052A		20107	USSR	05 JUL	1436.3	2.4	35798	35782	0.14	
1989-052D		20110	USSR	05 JUL	1397.2	2.3	35152	34892	2.50	
1989-052F		20116	USSR	05 JUL	515.4	47.0	29513	320	0.10	
1989-053A		20122	ESA	12 JUL	1436.2	1.2	35817	35758	14.10	
1989-053B	OLYMPUS	20123	ESA	12 JUL	240.1	6.4	12703	136	0.70	
1989-053C		20229	ESA	12 JUN	636.3	6.0	35804	451	1.00	
1989-059A		20149	USSR	25 JUL	104.8	82.9	1011	962	4.46	
1989-059B		20150	USSR	25 JUL	104.7	82.9	1002	956	9.64	
1989-061B		20167	US	08 AUG	NO ELEMENTS	AVAILABLE				
1989-061C	COSMOS 2034	20172	US	08 AUG	NO ELEMENTS	AVAILABLE				
1989-061D		20344	US	08 AUG	NO ELEMENTS	AVAILABLE				
1989-061E		22263	US	08 AUG	NO CURRENT ELEMENTS					
1989-061F		22264	US	08 AUG	NO CURRENT ELEMENTS					
1989-061G		22265	US	08 AUG	NO CURRENT ELEMENTS					
1989-061H	TV-SAT 2 HIPPARCOS	22267	US	08 AUG	NO CURRENT ELEMENTS					
1989-061J		22268	US	08 AUG	NO CURRENT ELEMENTS					
1989-061K		22718	US	08 AUG	NO ELEMENTS	AVAILABLE				
1989-062A		20168	FRG	08 AUG	1436.2	0.0	35807	35767	0.70	
1989-062B		20169	ESA	08 AUG	638.7	6.7	35836	542	0.10	
1989-062C	BSB-R1	20170	ESA	08 AUG	620.1	7.1	35040	381	2.00	
1989-064A		20185	US	18 AUG	718.0	54.9	20201	20164	39.80	
1989-067A		20193	UK	27 AUG	1436.2	0.1	35795	35782	41.80	
1989-067C		20195	US	27 AUG	644.7	23.3	36412	272	3.50	
1989-068A		20196	USSR	28 AUG	116.0	73.6	1522	1482	23.89	
1989-068B	COSMOS 2037	20197	USSR	28 AUG	116.0	73.6	1520	1482	2.19	
1989-069A		20202	US	04 SEP	NO ELEMENTS	AVAILABLE				
1989-069B		20203	US	04 SEP	NO ELEMENTS	AVAILABLE				
1989-069D		20205	US	04 SEP	NO ELEMENTS	AVAILABLE				
1989-070A		20217	JAPAN	05 SEP	1436.3	0.0	35792	35787	0.14	
1989-070B	GMS-4	20230	JAPAN	05 SEP	441.9	28.3	25469	209	0.30	
1989-072A		20317	JAPAN	05 SEP	1458.2	2.1	37121	35315	0.14	
1989-072B		20220	US	06 SEP	NO ELEMENTS	AVAILABLE				
1989-074A		20221	US	06 SEP	NO ELEMENTS	AVAILABLE				
1989-074B		20232	USSR	14 SEP	113.8	82.6	1408	1389	2.29	
1989-074C	COSMOS 2038	20233	USSR	14 SEP	113.7	82.6	1408	1382	2.56	
1989-074C		20234	USSR	14 SEP	114.0	82.6	1412	1408	2.48	
1989-074D		20235	USSR	14 SEP	113.8	82.6	1408	1393	2.32	

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## OBJECTS IN ORBIT

## INTER-

NATIONAL  
DESIGNATION

## NAME

CATALOG  
NUMBER SOURCE

## LAUNCH

PERIOD  
MINUTES INCLIN-APOGEE  
(KM)PERIGEE  
(KM)RCS  
(SQ.M) FOOT-  
NOTES

1989-074E	COSMOS 2042	20236	USSR	14 SEP	113.9	82.6	1408	1399	2.75	
1989-074F	COSMOS 2043	20237	USSR	14 SEP	113.9	82.6	1408	1405	2.62	
1989-074G		20238	USSR	14 SEP	114.7	82.6	1471	1408	10.98	
1989-077A		20253	US	25 SEP	1436.3	2.6	35810	35768	5.00	
1989-078A	MOLNIYA 1-76	20255	USSR	27 SEP	717.8	64.8	39572	783	1.10	
1989-080A		20258	USSR	27 SEP	698.3	64.9	38510	878	0.70	
1989-080B	INTER-COSMOS 24	20261	USSR	28 SEP	115.4	82.6	2449	498	6.80	
1989-080C		20262	USSR	28 SEP	115.3	82.6	2442	498	0.65	
1989-081A		20282	USSR	28 SEP	115.6	82.6	2469	497	5.95	
1989-081D		20263	USSR	28 SEP	110.9	82.6	2049	489	0.02	
1989-084B	GORIZANT 19	20266	USSR	28 SEP	1436.1	2.3	35788	35785	0.14	
1989-084C	GALILEO	20298	US	28 SEP	1431.5	2.2	35816	35576	0.14	1*
1989-084D		20299	US	18 OCT	418.8	34.3	24110	217	0.30	
1989-085A		20300	US	18 OCT	HELIOCENTRIC ORBIT					
1989-085B		20302	US	21 OCT	718.0	53.7	20198	20166	0.50	
1989-086A	METEOR 3-3	20303	US	21 OCT	98.5	35.6	891	487	11.63	
1989-086B		20305	USSR	24 OCT	110.3	82.6	1247	1236	4.81	
1989-087A	INTELSAT 6 F-2	20306	USSR	24 OCT	109.4	82.6	1209	1184	7.60	
1989-087B		20315	ITSO	27 OCT	1436.1	0.0	35792	35781	372.30	
1989-089A		20316	ESA	27 OCT	582.7	7.3	33194	268	1.50	
1989-089B	COBE	20322	US	18 NOV	102.6	98.9	895	874	16.25	
1989-090B	TD 089AV	20355	US	18 NOV	SEE NOTE		34*			34*
1989-090C		20356	US	23 NOV	NO ELEMENTS AVAILABLE					
1989-090D		20357	US	23 NOV	NO ELEMENTS AVAILABLE					
1989-091A	COSMOS 2050	20330	USSR	23 NOV	718.4	62.7	38112	2273	5.60	
1989-093A		20333	USSR	23 NOV	705.2	63.7	37352	2380	1.00	
1989-093A	KVANT -2	20335	USSR	26 NOV	92.4	51.6	397	388	80.37	1*
1989-094A	MOLNIYA 3-36	20338	USSR	28 NOV	717.8	64.8	39655	698	0.70	
1989-094B		20339	USSR	28 NOV	732.1	65.0	40305	752	0.60	
1989-096A	GRANAT	20352	USSR	01 DEC	5899.9	86.6	149862	53697	1.60	
1989-096C		20354	USSR	01 DEC	5778.9	86.1	148444	52146	1.90	
1989-097A		20361	US	11 DEC	718.0	55.4	20371	19992	2.00	
1989-097B		20362	US	11 DEC	98.4	35.6	878	483	12.23	
1989-098A	RADUGA 24	20367	USSR	15 DEC	1436.8	1.9	35813	35786	0.14	
1989-098D		20370	USSR	15 DEC	1471.6	2.1	36556	36401	2.00	
1989-100A	COSMOS 2053	20389	USSR	27 DEC	92.7	73.5	410	405	9.31	
1989-100B		20390	USSR	27 DEC	94.4	73.5	496	481	6.72	
1989-101A	COSMOS 2054	20391	USSR	27 DEC	1436.1	1.8	35796	35775	56.50	
1989-101D		20394	USSR	27 DEC	1465.7	2.0	36409	36318	1.50	
1989-101E		20399	USSR	27 DEC	434.8	46.9	24997	268	0.30	
1989-101G		21648	USSR	27 DEC	NO CURRENT ELEMENTS					

## 1990 LAUNCHES

1990-001A	SKYNET 4A	20401	UK	01 JAN	1436.2	1.8	35802	35773	5.80	
1990-001B	JCSAT	20402	JAPAN	01 JAN	1436.2	0.0	35795	35781	0.14	
1990-001D		20404	US	01 JAN	603.8	21.5	34231	338	0.40	
1990-001F		20406	US	01 JAN	324.3	26.5	18223	294	0.30	
1990-002B	LEASAT 5	20410	US	09 JAN	1436.1	2.7	35803	35771	0.14	1*
1990-002C		20411	US	09 JAN	265.7	27.2	14309	318	0.20	
1990-004A	COSMOS 2056	20432	USSR	18 JAN	100.6	74.0	804	768	2.18	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1990-004B		20433	USSR	18 JAN	100.5	74.0	807	754	12.17	
1990-004C		20434	USSR	18 JAN	100.7	74.0	807	778	0.01	
1990-004D		20435	USSR	18 JAN	100.2	74.0	784	752	0.04	
1990-005A	SPOT-2	20436	FRANCE	22 JAN	101.3	98.7	823	821	13.75	
1990-005B	OSCAR 14	20437	UK	22 JAN	100.7	98.6	797	781	0.38	
1990-005C	OSCAR 15	20438	UK	22 JAN	100.7	98.6	799	784	0.53	
1990-005D	OSCAR 16	20439	US	22 JAN	100.6	98.6	797	781	0.20	
1990-005E	OSCAR 17	20440	BRAZIL	22 JAN	100.6	98.6	797	780	0.17	
1990-005F	OSCAR 18	20441	US	22 JAN	100.6	98.6	797	780	0.13	
1990-005G	OSCAR 19	20442	ARGNT	22 JAN	100.6	98.6	797	779	0.21	
1990-005H		20443	ESA	22 JAN	100.5	98.5	789	774	15.00	
1990-006A	MOLNIYA 3	20444	USSR	23 JAN	717.7	64.9	39367	982	1.30	
1990-006C		20446	USSR	23 JAN	696.7	64.9	38191	1118	0.60	
1990-007A	MUSES A	20448	JAPAN	24 JAN	NO ELEMENTS AVAILABLE					
1990-007B	HAGOROMO	20618	JAPAN	24 JAN	SELENOCENTRIC ORBIT					
1990-007D		20451	JAPAN	24 JAN	NO ELEMENTS AVAILABLE					
1990-008A		20452	US	24 JAN	718.0	54.1	20319	20045	0.10	
1990-008B		20453	US	24 JAN	101.4	35.6	1204	447	12.45	
1990-008C		20450	US	24 JAN	135.0	37.6	4507	170	2.25	
1990-010A	COSMOS 2058	20465	USSR	30 JAN	97.3	82.5	645	616	11.45	
1990-010B		20466	USSR	30 JAN	97.5	82.5	653	622	2.08	
1990-011A	PRC-26	20473	PRC	04 FEB	1436.3	0.0	35795	35783	0.14	
1990-011B		20474	PRC	04 FEB	591.8	30.1	33712	230	1.00	
1990-012C		20481	USSR	06 FEB	NO CURRENT ELEMENTS					
1990-013A	MOS 1B	20478	JAPAN	07 FEB	103.2	99.1	909	907	12.35	
1990-013B	DEBUT	20479	JAPAN	07 FEB	112.2	99.0	1742	908	0.50	
1990-013C	JAS 1-B	20480	JAPAN	07 FEB	112.2	99.0	1742	908	0.33	
1990-013D		20491	JAPAN	07 FEB	110.5	99.0	1605	889	10.24	
1990-015A		20496	US	14 FEB	94.0	43.1	480	463	16.98	
1990-016A	RADUGA 25	20499	USSR	15 FEB	1436.1	1.7	35795	35779	0.14	
1990-016D		20502	USSR	15 FEB	1439.7	1.9	36024	35691	1.60	
1990-017A	NADEZHDA-2	20508	USSR	27 FEB	104.8	83.0	1017	950	3.76	
1990-017B		20509	USSR	27 FEB	104.7	83.0	1012	948	10.75	
1990-018A		20510	USSR	28 FEB	97.4	82.5	646	617	22.14	
1990-018B	OKEAN-2	20511	USSR	28 FEB	97.6	82.5	656	627	5.78	
1990-019B		20516	US	28 FEB	NO ELEMENTS AVAILABLE					
1990-019C		20517	US	28 FEB	NO ELEMENTS AVAILABLE					
1990-019D		20518	US	28 FEB	NO ELEMENTS AVAILABLE					
1990-019E		20519	US	28 FEB	NO ELEMENTS AVAILABLE					
1990-019F		20520	US	28 FEB	NO ELEMENTS AVAILABLE					
1990-019G		20521	US	28 FEB	NO ELEMENTS AVAILABLE					
1990-021A	INTELSAT 6 F-3	20523	ITSO	14 MAR	1436.1	0.0	35791	35785	365.30	
1990-023A	COSMOS 2061	20527	USSR	20 MAR	104.9	82.9	1015	967	4.26	
1990-023B		20528	USSR	20 MAR	104.9	82.9	1014	964	10.38	
1990-025A		20533	US	26 MAR	718.0	55.1	20290	20073	0.40	
1990-025C		20535	US	26 MAR	96.8	37.3	1053	160	2.69	
1990-026A	COSMOS 2063	20536	USSR	27 MAR	717.5	63.8	38633	1706	3.90	
1990-026D		20539	USSR	27 MAR	709.3	64.9	38047	1885	0.70	
1990-028A	PEGSAT	20546	US	05 APR	93.7	94.1	507	401	2.96	
1990-028B		20547	US	05 APR	95.9	94.1	643	477	0.38	
1990-029A	COSMOS 2064	20549	USSR	06 APR	115.4	74.0	1487	1461	0.61	
1990-029B	COSMOS 2065	20550	USSR	06 APR	115.2	74.0	1472	1460	0.75	
1990-029C	COSMOS 2066	20551	USSR	06 APR	114.3	74.0	1461	1383	0.72	

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INTER- NATIONAL DESIGNATION		OBJECTS IN ORBIT									
		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1990-029D	COSMOS 2067	20552	USSR	06 APR	114.4	74.0	1461	1398	0.64		
1990-029E	COSMOS 2068	20553	USSR	06 APR	114.6	74.0	1461	1412	0.83		
1990-029F	COSMOS 2069	20554	USSR	06 APR	114.8	74.0	1461	1426	0.76		
1990-029G	COSMOS 2070	20555	USSR	06 APR	114.9	74.0	1462	1440	0.76		
1990-029H	COSMOS 2071	20556	USSR	06 APR	115.1	74.0	1461	1456	0.63		
1990-029J		20557	USSR	06 APR	117.7	74.0	1699	1458	11.02		
1990-030A	ASIASAT 1	20558	UK	07 APR	1436.2	0.1	35804	35774	0.14		
1990-030B		20559	PRC	07 APR	569.9	30.7	32570	211	0.70		
1990-031A		20560	US	11 APR	NO ELEMENTS AVAILABLE						
1990-031B		20561	US	11 APR	NO ELEMENTS AVAILABLE						
1990-031C		20562	US	11 APR	NO ELEMENTS AVAILABLE						
1990-031D		20563	US	11 APR	NO ELEMENTS AVAILABLE						
1990-031E		20564	US	11 APR	NO ELEMENTS AVAILABLE						
1990-031F		20565	US	11 APR	NO ELEMENTS AVAILABLE						
1990-031G		20575	US	11 APR	NO ELEMENTS AVAILABLE						
1990-031H		20576	US	11 APR	NO ELEMENTS AVAILABLE						
1990-034A	PALAPA B2R	20570	INDO	13 APR	1436.3	0.0	35795	35784	0.14		
1990-034B		20571	US	13 APR	103.7	22.7	1368	499	14.47		
1990-034C		20572	US	13 APR	309.0	18.5	17283	240	0.20		
1990-036A	COSMOS 2074	20577	USSR	20 APR	104.7	82.9	1002	962	3.20		
1990-036B		20578	USSR	20 APR	104.6	82.9	992	962	8.39		
1990-037B	HST	20580	US	24 APR	96.6	28.4	602	596	38.11		1*
1990-037C		22920	US	24 APR	96.5	28.5	593	586	0.00		
1990-039A	MOLNIYA 1-77	20583	USSR	26 APR	717.7	64.4	39625	724	1.40		
1990-039D		20586	USSR	26 APR	733.1	64.6	40345	760	0.60		
1990-040A	COSMOS 2076	20596	USSR	28 APR	717.1	63.1	38648	1673	0.50		
1990-040D		20599	USSR	28 APR	707.7	63.9	37924	1930	1.00		
1990-043A	SCOUT M-1	20607	US	09 MAY	98.3	89.9	754	601	0.52		
1990-043B		20608	US	09 MAY	98.3	89.9	750	600	0.55		
1990-043C		20609	US	09 MAY	97.9	89.9	726	589	1.12		
1990-043D		20610	US	09 MAY	97.2	89.9	686	566	0.06		
1990-043E		20611	US	09 MAY	97.1	89.9	675	560	0.07		
1990-043F		20612	US	09 MAY	97.0	89.9	665	568	0.06		
1990-043H		20614	US	09 MAY	97.0	89.9	661	565	0.10		
1990-043K		20651	US	09 MAY	97.8	90.2	747	554	0.06		
1990-043L		20759	US	09 MAY	95.9	89.6	585	538	0.44		
1990-045A	COSMOS 2079	20619	USSR	19 MAY	675.7	65.3	19195	19062	0.10		
1990-045B	COSMOS 2080	20620	USSR	19 MAY	675.7	65.3	19145	19113	1.40		
1990-045C	COSMOS 2081	20621	USSR	19 MAY	675.7	65.4	19164	19094	0.50		
1990-045E		20623	USSR	19 MAY	674.7	65.4	19140	19069	2.50		
1990-045F		20630	USSR	19 MAY	339.6	65.4	18816	677	0.10		
1990-045G		20631	USSR	19 MAY	339.4	65.2	18797	684	0.80		
1990-046A	COSMOS 2082	20624	USSR	22 MAY	101.9	71.0	857	837	13.33		
1990-046B		20625	USSR	22 MAY	101.8	71.0	855	833	26.33		
1990-046C		20626	USSR	22 MAY	105.1	71.0	1151	842	0.09		
1990-046D		20627	USSR	22 MAY	105.2	71.0	1161	844	0.14		
1990-046E		20628	USSR	22 MAY	105.1	71.0	1155	841	0.10		
1990-046F		20629	USSR	22 MAY	104.9	71.0	1141	842	0.04		
1990-048A	KRISTALL	20635	USSR	31 MAY	92.4	51.6	397	388	216.05		
1990-049A	ROSAT	20638	FRG	01 JUN	95.6	53.0	554	539	10.19		
1990-050A		20641	US	08 JUN	NO ELEMENTS AVAILABLE						
1990-050B		20682	US	08 JUN	NO ELEMENTS AVAILABLE						
1990-050C		20691	US	08 JUN	NO ELEMENTS AVAILABLE						

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1990-050D		20692	US	08 JUN	NO ELEMENTS AVAILABLE					
1990-050E		20642	US	08 JUN	NO ELEMENTS AVAILABLE					
1990-050F		21916	US	08 JUN	NO ELEMENTS AVAILABLE					
1990-050G		21917	US	08 JUN	NO ELEMENTS AVAILABLE					
1990-050H		22171	US	08 JUN	NO ELEMENTS AVAILABLE					
1990-051A	INSAT-1D	20643	INDIA	12 JUN	1436.0	0.1	36972	34598	2.00	
1990-052A	MOLNIYA 3-38	20646	USSR	13 JUN	717.7	63.5	39778	571	0.60	
1990-052D		20649	USSR	13 JUN	733.7	63.5	40522	613	0.60	
1990-054A	GORIZONT 20	20659	USSR	20 JUN	1436.1	1.5	35801	35771	3.50	
1990-054D		20662	USSR	20 JUN	1432.6	1.5	35778	35657	2.50	
1990-054E		20704	USSR	20 JUN	467.4	46.5	26975	170	0.82	
1990-055A	COSMOS 2084	20663	USSR	21 JUN	97.7	62.8	747	551	14.72	
1990-055D		20666	USSR	21 JUN	97.6	62.8	724	562	6.28	
1990-056A	INTELSAT 6 F-4	20667	ITSO	23 JUN	1436.1	0.0	35790	35782	362.60	
1990-056C		20669	US	23 JUN	661.9	23.8	37286	276	1.00	
1990-057A	METEOR 2-19	20670	USSR	27 JUN	104.0	82.5	956	935	6.55	
1990-057B		20671	USSR	27 JUN	104.0	82.5	956	935	5.78	
1990-061A	COSMOS 2085	20693	USSR	18 JUL	1436.2	1.5	35790	35785	0.31	
1990-061D		20696	USSR	18 JUL	1435.9	1.5	35918	35647	10.00	
1990-061F		20698	USSR	18 JUL	512.8	46.6	29489	199	1.60	
1990-063A	TDF-2	20705	FRANCE	24 JUL	1436.2	0.1	35803	35772	3.50	
1990-063B	DFS-2	20706	FRG	24 JUL	1436.0	0.0	36078	35491	3.60	
1990-063C		20717	ESA	24 JUL	633.3	4.3	35681	417	2.50	
1990-063D		20718	ESA	24 JUL	569.5	4.1	32458	304	2.00	
1990-064A	COSMOS 2087	20707	USSR	25 JUL	717.0	65.5	38206	2108	4.40	
1990-064D		20710	USSR	25 JUL	704.0	65.9	37616	2054	0.70	
1990-065A	CRRES	20712	US	25 JUL	613.4	18.0	34739	335	0.50	
1990-065S	TO 065S		US	25 JUL	SEE NOTE		35*			35*
1990-066A	COSMOS 2088	20720	USSR	30 JUL	116.0	73.6	1522	1481	24.96	
1990-066B		20721	USSR	30 JUL	116.0	73.6	1519	1480	6.09	
1990-068A		20724	US	02 AUG	718.0	54.7	20468	19896	1.30	
1990-070A	COSMOS 2090	20735	USSR	08 AUG	113.8	82.6	1411	1387	1.88	
1990-070B	COSMOS 2091	20736	USSR	08 AUG	114.0	82.6	1412	1408	1.96	
1990-070C	COSMOS 2092	20737	USSR	08 AUG	114.0	82.6	1412	1403	1.88	
1990-070D	COSMOS 2093	20738	USSR	08 AUG	113.9	82.6	1412	1396	2.02	
1990-070E	COSMOS 2094	20739	USSR	08 AUG	113.8	82.6	1411	1391	2.21	
1990-070F	COSMOS 2095	20740	USSR	08 AUG	113.7	82.6	1411	1380	2.33	
1990-070G		20741	USSR	08 AUG	114.6	82.6	1465	1411	5.26	
1990-071A	MOLNIYA 1-78	20742	USSR	10 AUG	717.7	63.8	39251	1099	0.50	
1990-071D		20745	USSR	10 AUG	732.7	63.8	39942	1144	0.60	
1990-074A	BSB-R2	20762	UK	18 AUG	1436.1	0.0	35794	35779	44.60	
1990-074B		20763	US	18 AUG	102.2	24.8	1244	478	10.84	
1990-074C		20764	US	18 AUG	669.7	21.0	37490	467	0.40	
1990-076A	COSMOS 2097	20767	USSR	28 AUG	717.8	64.8	38828	1528	1.70	
1990-076D		20770	USSR	28 AUG	707.8	65.4	38215	1647	4.68	
1990-077A	BS-3A	20771	JAPAN	28 AUG	1436.2	0.0	35800	35775	10.00	
1990-078A	COSMOS 2098	20774	USSR	28 AUG	108.1	83.0	1885	392	2.31	
1990-078B		20775	USSR	28 AUG	107.3	83.0	1822	376	9.00	
1990-079A	SKYNET 4C	20776	UK	30 AUG	1436.1	2.0	35793	35781	1.10	
1990-079B	EUTELSAT 11 F1	20777	ESA	30 AUG	1436.2	0.1	35806	35769	15.80	
1990-081A	FENGYUN 1-2	20788	PRC	03 SEP	102.7	98.9	896	875	6.20	
1990-081D	TO 081CH		PRC	03 SEP	SEE NOTE		36*			36*
1990-083A	COSMOS 2100	20804	USSR	14 SEP	104.8	82.9	1010	957	2.90	

# OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1990-083B		20805	USSR	14 SEP	104.7	82.9	1002	954	9.64	
1990-084A	MOLNIYA 3-39	20813	USSR	20 SEP	717.7	63.2	39142	1209	1.00	
1990-084D		20816	USSR	20 SEP	731.7	63.2	39802	1234	0.50	
1990-086A	METEOR 2-20	20826	USSR	28 SEP	104.0	82.5	957	939	9.86	
1990-086B		20827	USSR	28 SEP	104.0	82.5	957	939	9.30	
1990-088A		20830	US	01 OCT	718.0	55.4	20363	20002	1.50	
1990-090B	ULYSSES	20842	US	06 OCT						1*
1990-090C		20843	US	06 OCT	549.8	28.1	31419	286	1.40	
1990-090D		20844	US	06 OCT						
1990-090E		20845	US	06 OCT						
1990-091A	SBS-6	20872	US	12 OCT	1436.2	0.0	35799	35778	51.80	
1990-091B	GALAXY VI	20873	US	12 OCT	1436.0	0.0	35793	35780	18.30	
1990-091C		20874	ESA	12 OCT	582.2	7.8	33175	261	3.90	
1990-093A	INMARSAT 2 F1	20918	UK	30 OCT	1436.2	1.7	35800	35775	10.00	
1990-093B		20919	US	30 OCT	97.3	24.7	895	368	13.87	
1990-094A		20923	USSR	03 NOV	1436.0	1.3	35788	35781	10.00	
1990-094D		20926	USSR	03 NOV	1427.8	1.2	35776	35472	1.00	
1990-094E		20927	USSR	03 NOV	197.8	46.5	9582	153	0.43	
1990-095A		20929	US	13 NOV						
1990-095C		20931	US	13 NOV						
1990-095D		20932	US	13 NOV						
1990-097B		20963	US	15 NOV						
1990-097C		20964	US	15 NOV						
1990-097D		20965	US	15 NOV						
1990-099A	COSMOS 2105	20941	USSR	20 NOV	717.0	65.3	38803	1513	0.80	
1990-099D		20944	USSR	20 NOV	707.4	65.7	38196	1646	0.60	
1990-100A	SATCOM I	20945	US	20 NOV	1436.1	0.1	35794	35777	5.00	
1990-100B	GSTAR IV	20946	US	20 NOV	1436.1	0.0	35799	35776	5.90	
1990-100C		20947	ESA	20 NOV	599.1	7.4	34017	306	2.50	
1990-101A	MOLNIYA 1-79	20949	USSR	23 NOV	717.6	64.6	39247	1100	0.70	
1990-101D		20952	USSR	23 NOV	730.6	64.8	39763	1221	0.60	
1990-102A	GORIZONT 22	20953	USSR	23 NOV	1436.2	1.2	35794	35781	10.00	
1990-102D		21046	USSR	23 NOV	1471.4	1.2	36560	36390	1.20	
1990-103A		20959	US	26 NOV	717.9	54.9	20384	19978	0.60	
1990-103B		20960	US	26 NOV	95.9	21.4	644	481	15.65	
1990-104B		20966	USSR	28 NOV	93.9	82.5	470	458	9.05	
1990-104G	COSMOS 2106	20967	USSR	28 NOV	94.6	82.5	507	490	7.53	
1990-105A		21069	USSR	28 NOV	92.8	82.5	423	399	0.12	
1990-105B		20978	US	01 DEC	100.5	98.7	837	724	11.00	
1990-105B		20979	US	01 DEC	97.5	98.8	671	603	0.05	
1990-105M		20998	US	01 DEC	96.4	98.9	675	496	0.04	
1990-105S		21073	US	01 DEC	97.9	98.8	698	621	0.04	
1990-105Z		21080	US	01 DEC	99.3	98.8	769	683	0.15	
1990-105AA		21124	US	01 DEC	94.6	98.8	533	462	0.07	
1990-105AB		21125	US	01 DEC	95.7	98.9	614	491	0.05	
1990-105AE		21690	US	01 DEC	98.9	98.8	748	667	0.21	
1990-110A	COSMOS 2109	21006	USSR	08 DEC	675.7	64.9	19283	18975	0.50	
1990-110B	COSMOS 2110	21007	USSR	08 DEC	675.7	64.9	19225	19033	0.20	
1990-110C	COSMOS 2111	21008	USSR	08 DEC	675.7	64.9	19148	19110	0.40	
1990-110F		21011	USSR	08 DEC	675.2	64.9	19150	19083	3.10	
1990-110G		21012	USSR	08 DEC	340.1	65.3	18765	755	1.30	
1990-110H		21013	USSR	08 DEC	340.1	65.2	18752	769	0.65	
1990-111A	COSMOS 2112	21014	USSR	10 DEC	100.6	74.0	807	764	4.17	

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OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ. M)	FOOT- NOTES
1990-111B		21015	USSR	10 DEC	100.5	74.1	798	765	9.28	
1990-111C		21255	USSR	10 DEC	100.6	74.0	800	775	0.01	
1990-112A	RADUGA 26	21016	USSR	20 DEC	1436.9	1.0	35826	35777	10.00	
1990-112D		21019	USSR	20 DEC	1439.7	1.1	35971	35740	1.20	
1990-112F		21025	USSR	20 DEC	452.8	46.6	26121	186	0.83	
1990-114A	COSMOS 2114	21028	USSR	22 DEC	114.0	82.6	1411	1408	2.38	
1990-114B	COSMOS 2115	21029	USSR	22 DEC	113.9	82.6	1408	1404	2.12	
1990-114C	COSMOS 2116	21030	USSR	22 DEC	113.9	82.6	1408	1398	1.59	
1990-114D	COSMOS 2117	21031	USSR	22 DEC	113.8	82.6	1408	1392	2.74	
1990-114E	COSMOS 2118	21032	USSR	22 DEC	113.7	82.6	1408	1388	2.38	
1990-114F	COSMOS 2119	21033	USSR	22 DEC	113.7	82.6	1408	1382	0.67	
1990-114G		21034	USSR	22 DEC	114.6	82.6	1469	1408	12.88	
1990-116A	RADUGA 1-2	21038	USSR	27 DEC	1436.3	1.0	35798	35781	10.00	
1990-116D		21041	USSR	27 DEC	1470.3	1.1	36591	36313	0.31	
1990-116F		21045	USSR	27 DEC	261.3	46.6	14159	165	0.10	
1990-116G		21961	USSR	27 DEC	301.2	46.6	16827	184	1.09	
1991 LAUNCHES										
1991-001A	NATO IVA	21047	NATO	08 JAN	1436.1	2.6	35798	35776	2.00	
1991-001B		21048	NATO	08 JAN	121.6	18.5	2722	786	11.86	
1991-001C		21049	NATO	08 JAN	635.9	25.8	35436	799	0.30	
1991-003A	ITALSAT-1	21055	ITALY	15 JAN	1436.0	0.1	35999	35569	10.00	
1991-003B	EUTELSAT	21056	ESA	15 JAN	1435.9	0.1	36646	34919	63.10	
1991-003C		21057	ESA	15 JAN	567.8	6.5	32393	277	2.00	
1991-003D		21058	ESA	15 JAN	426.1	6.8	24540	220	1.00	
1991-006A	INFORMTR-1	21087	USSR	29 JAN	104.7	82.9	1005	955	3.55	
1991-006B		21088	USSR	29 JAN	104.6	82.9	992	956	9.85	
1991-007A		21089	USSR	05 FEB	104.7	82.9	1003	961	2.64	
1991-007B	COSMOS 2123	21090	USSR	05 FEB	104.6	82.9	991	963	12.22	
1991-007C		21091	USSR	05 FEB	104.6	82.9	994	953	0.02	
1991-009A	COSMOS 2125	21100	USSR	12 FEB	115.2	74.0	1470	1455	0.97	
1991-009B	COSMOS 2126	21101	USSR	12 FEB	115.5	74.0	1494	1464	0.82	
1991-009C	COSMOS 2127	21102	USSR	12 FEB	115.3	74.0	1475	1465	0.90	
1991-009D	COSMOS 2128	21103	USSR	12 FEB	115.0	74.0	1466	1443	0.91	
1991-009E	COSMOS 2129	21104	USSR	12 FEB	114.8	74.0	1467	1427	0.76	
1991-009F	COSMOS 2130	21105	USSR	12 FEB	114.5	74.0	1467	1398	0.56	
1991-009G	COSMOS 2131	21106	USSR	12 FEB	114.3	74.0	1466	1384	0.80	
1991-009H	COSMOS 2132	21107	USSR	12 FEB	114.7	74.0	1466	1413	0.87	
TO 009CN										
1991-010A	COSMOS 2133	21111	USSR	14 FEB	1436.1	0.5	35795	35777	6.50	37*
1991-010D		21114	USSR	14 FEB	389.6	46.5	22406	175	0.10	
1991-010F		21129	USSR	14 FEB	1438.6	0.5	35909	35761	0.31	
1991-012A	MOLNIYA 1-80	21118	USSR	15 FEB	717.8	63.2	38619	1738	0.40	
1991-012D		21121	USSR	15 FEB	700.5	63.2	37736	1763	0.50	
1991-012E		21122	USSR	15 FEB	588.2	47.3	33325	428	0.10	
1991-013A	COSMOS 2135	21130	USSR	26 FEB	104.5	82.8	1016	921	4.75	
1991-013B		21131	USSR	26 FEB	104.3	82.8	1009	918	9.14	
1991-013C		21132	USSR	28 FEB	1436.1	1.1	35800	35773	1.00	
1991-014A	RADUGA 27	21135	USSR	28 FEB	1392.2	1.0	35030	34816	2.00	
1991-014D		21139	USSR	02 MAR	1436.1	0.0	35811	35760	19.90	
1991-015A	ASTRA 1-B	21140	LUXEM	02 MAR	1434.9	0.3	35765	35758	0.80	
1991-015B	MOP-2	21140	ESA	02 MAR	513.3	6.5	29512	205	1.10	
1991-015C		21141	ESA	02 MAR	513.3	6.5				

## OBJECTS IN ORBIT

INTER-NATIONAL DESIGNATION		NAME	CATALOG		SOURCE	LAUNCH	PERIOD	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOTNOTES
			NUMBER				MINUTES					
1991-015D		INMARSAT-2	21142	ESA	02 MAR	340.0	6.8	19315	202	0.30		
1991-015E			21904	ESA	02 MAR	1437.8	1.4	36451	35187	0.02		
1991-017A			21147	US	08 MAR	NO ELEMENTS AVAILABLE						
1991-017B			21148	US	08 MAR	NO ELEMENTS AVAILABLE						
1991-018A			21149	UK	08 MAR	1436.1	2.2	35793	35780	0.90		
1991-018B		NADEZHDA	21150	US	08 MAR	99.3	25.0	1039	409	11.92		
1991-018C			21151	US	08 MAR	508.5	23.3	29259	193	0.10		
1991-019A			21152	USSR	12 MAR	104.8	82.9	1014	953	3.52		
1991-019B			21153	USSR	12 MAR	104.7	82.9	1005	952	11.33		
1991-021A			21190	USSR	19 MAR	91.8	65.8	364	356	2.73		
1991-021B		COSMOS 2137	21191	USSR	19 MAR	90.1	65.8	283	274	11.05		
1991-022A			21196	USSR	22 MAR	717.7	63.2	38574	1777	0.40		
1991-022D			21199	USSR	22 MAR	700.2	63.2	37694	1787	0.70		
1991-025A			21216	USSR	04 APR	675.7	65.1	19160	19098	0.60		
1991-025B			21217	USSR	04 APR	675.7	65.1	19161	19097	25.10		
1991-025C		COSMOS 2140	21218	USSR	04 APR	675.7	65.1	19149	19109	0.60		
1991-025E			21221	USSR	04 APR	675.5	65.1	19131	19116	2.50		
1991-025F			21220	USSR	04 APR	339.3	65.2	18877	596	0.10		
1991-025G			21226	USSR	04 APR	339.2	65.0	18878	589	0.10		
1991-026A			21222	CANADA	05 APR	1436.1	0.0	35798	35777	79.40		
1991-026B		ANIK E-2	21223	ESA	05 APR	634.6	4.3	35715	454	2.00		
1991-027B			21225	US	05 APR	93.6	28.4	463	443	60.75		
1991-028A			21227	US	13 APR	1436.1	0.0	35797	35777	22.50		
1991-028B			21228	US	13 APR	115.5	24.0	2397	559	14.54		
1991-028C			21229	US	13 APR	655.6	21.9	35920	1319	0.40		
1991-029A		COSMOS 2142	21230	USSR	16 APR	104.9	83.0	1017	958	3.15		
1991-029B			21231	USSR	16 APR	104.7	82.9	1007	952	9.69		
1991-030A			21232	USSR	24 APR	109.3	82.5	1204	1186	5.41		
1991-030B			21233	USSR	24 APR	109.3	82.5	1208	1184	5.94		
1991-031C			21262	US	28 APR	NO ELEMENTS AVAILABLE						
1991-032A		NOAA 12	21263	US	14 MAY	101.2	98.6	824	804	20.96		1*
1991-032B			21267	US	14 MAY	100.5	98.7	782	777	0.07		
1991-032C			21298	US	14 MAY	100.5	98.7	783	778	0.16		
1991-033A			21299	USSR	16 MAY	113.9	82.6	1414	1396	2.06		
1991-033B			21300	USSR	16 MAY	114.0	82.6	1414	1408	0.57		
1991-033C		COSMOS 2145	21301	USSR	16 MAY	114.0	82.6	1414	1402	1.86		
1991-033D			21302	USSR	16 MAY	113.8	82.6	1414	1391	1.94		
1991-033E			21303	USSR	16 MAY	113.8	82.6	1414	1386	1.95		
1991-033F			21304	USSR	16 MAY	113.7	82.6	1414	1379	2.57		
1991-033G			21305	USSR	16 MAY	114.7	82.6	1470	1413	12.89		
1991-035C		AURORA-II	21479	USSR	21 MAY	85.8	82.2	90	65	0.00		
1991-037A			21392	US	29 MAY	1436.2	0.1	35797	35778	3.80		
1991-037B			21393	US	29 MAY	112.4	25.0	2266	403	11.78		
1991-037C			21394	US	29 MAY	648.8	23.2	35491	1401	0.20		
1991-039A			21397	USSR	04 JUN	97.5	82.5	655	621	11.69		
1991-039B		OKEAN 3	21398	USSR	04 JUN	97.6	82.5	659	625	7.08		
1991-039C			21842	USSR	04 JUN	97.2	82.5	641	609	0.12		
1991-041A			21418	USSR	11 JUN	100.7	74.0	805	778	3.17		
1991-041B			21419	USSR	11 JUN	100.6	74.0	800	773	11.00		
1991-041C			21420	USSR	11 JUN	100.8	74.1	802	791	0.03		
1991-041D		COSMOS 2150	21711	USSR	11 JUN	100.6	74.0	797	772	0.01		
1991-042A			21422	USSR	13 JUN	97.5	82.5	653	625	15.90		
1991-042B			21423	USSR	13 JUN	97.6	82.5	656	628	5.33		

## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1991-043A	MOLNIYA 1-81	21426	USSR	18 JUN	717.8	63.4	38875	1478	1.50	
1991-043D		21429	USSR	18 JUN	732.2	63.5	39520	1541	0.50	
1991-045A	REX	21527	US	29 JUN	101.3	89.6	869	767	0.36	
1991-045B		21528	US	29 JUN	101.1	89.6	854	764	0.08	
1991-045C		21529	US	29 JUN	101.2	89.6	869	765	0.82	
1991-045D		21532	US	29 JUN	101.2	89.5	870	758	0.06	
1991-045E		21691	US	29 JUN	100.4	89.8	789	763	0.08	
1991-045F		21712	US	29 JUN	101.9	89.3	955	739	0.07	
1991-046A	GORIZONT 23	21533	USSR	02 JUL	1455.9	0.5	36198	36148	3.10	
1991-046D		21536	USSR	02 JUL	1426.7	0.6	35667	35535	2.00	
1991-046E		21538	USSR	02 JUL	468.3	47.0	26920	276	0.10	
1991-047A		21552	US	04 JUL	717.9	55.6	20319	20043	0.10	
1991-047D		21555	US	04 JUL	213.7	34.5	10793	187	0.20	
1991-050A	ERS-1	21574	ESA	17 JUL	100.3	98.5	775	774	23.88	
1991-050B	UOSAT-F	21575	UK	17 JUL	100.2	98.5	772	759	0.24	
1991-050C	ORBCOMM-X	21576	US	17 JUL	100.2	98.5	771	764	0.26	
1991-050D	TUBSAT	21577	FRG	17 JUL	100.2	98.5	772	762	0.41	
1991-050E	SARA	21578	FRANCE	17 JUL	100.0	98.5	764	755	1.51	
1991-050F		21610	ESA	17 JUL	100.3	98.4	776	770	16.39	
1991-053A	MOLNIYA 1-82	21630	USSR	01 AUG	717.8	64.5	39591	763	0.60	
1991-053D		21633	USSR	01 AUG	733.1	64.7	40291	817	0.70	
1991-054B	TDRS-5	21639	US	02 AUG	1436.2	0.0	35797	35780	0.31	1*
1991-054C		21640	US	02 AUG	613.7	26.8	34804	283	0.50	
1991-054D		21641	US	02 AUG	1435.7	2.0	35931	35627	1.00	
1991-054E		21642	US	02 AUG	618.8	27.0	35079	271	1.00	
1991-055A	INTELSAT 6 F-5	21653	ITSD	14 AUG	1436.2	0.0	35791	35786	272.80	
1991-055B		21654	ESA	14 AUG	583.9	7.1	33276	247	1.50	
1991-056A	METEOR 3-5	21655	USSR	15 AUG	109.3	82.6	1203	1184	12.72	
1991-056B		21656	USSR	15 AUG	109.3	82.6	1203	1184	5.60	
1991-059A	COSMOS 2154	21666	USSR	22 AUG	104.8	82.9	1006	967	5.01	
1991-059B		21667	USSR	22 AUG	104.7	82.9	1001	961	10.90	
1991-060A	BS-3B	21668	JAPAN	25 AUG	1436.1	0.0	35801	35775	1.60	
1991-061A		21688	INDIA	29 AUG	103.1	99.1	917	890	10.87	
1991-061B		21689	INDIA	29 AUG	102.8	99.2	914	863	8.94	
1991-062A	SOLAR-A	21694	JAPAN	30 AUG	97.4	31.3	754	516	7.83	
1991-062B		21695	JAPAN	30 AUG	97.5	31.3	758	515	2.59	
1991-062F		21699	JAPAN	30 AUG	92.7	31.4	431	381	0.05	
1991-062H		21802	JAPAN	30 AUG	97.3	31.5	704	552	0.05	
1991-062J		22844	JAPAN	30 AUG	94.4	31.6	551	422	0.00	
1991-063B	UARS	21701	US	12 SEP	96.3	57.0	596	571	45.61	1*
1991-064A	COSMOS 2155	21702	USSR	13 SEP	1437.0	0.4	35825	35781	1.00	
1991-064B		21703	USSR	13 SEP	1441.6	0.6	35899	35887	1.90	
1991-065A	MOLNIYA 3-41	21706	USSR	17 SEP	717.8	63.1	39145	1209	1.20	
1991-065D		21709	USSR	17 SEP	733.3	63.0	39871	1243	0.70	
1991-067A	ANIK E1	21726	CANADA	26 SEP	1436.1	0.0	35799	35777	92.10	
1991-067B		21727	ESA	26 SEP	636.7	3.9	35873	403	1.70	
1991-068A	COSMOS 2157	21728	USSR	28 SEP	114.0	82.6	1412	1403	2.06	
1991-068B	COSMOS 2158	21729	USSR	28 SEP	113.9	82.6	1408	1401	0.71	
1991-068C	COSMOS 2159	21730	USSR	28 SEP	113.7	82.6	1406	1386	2.16	
1991-068D	COSMOS 2160	21731	USSR	28 SEP	113.8	82.6	1408	1396	1.92	
1991-068E	COSMOS 2161	21732	USSR	28 SEP	113.8	82.6	1407	1392	1.55	
1991-068F	COSMOS 2162	21733	USSR	28 SEP	114.0	82.6	1417	1404	1.43	
1991-068G		21734	USSR	28 SEP	114.7	82.6	1478	1406	3.93	



## OBJECTS IN ORBIT

INTER-  
NATIONAL  
DESIGNATION

## NAME

CATALOG  
NUMBER SOURCE

## LAUNCH

PERIOD  
MINUTESINCLI-  
NATIONAPOGEE  
(KM)PERIGEE  
(KM)RCS  
(SQ.M)FOOT-  
NOTES

1991-074A	GORIZONT 24	21759	USSR	23 OCT	1436.1	0.3	35802	35771	10.00	
1991-074D		21762	USSR	23 OCT	1444.4	0.4	36062	35834	1.60	
1991-075A	INTELSAT F1 V1	21765	ITSO	29 OCT	1436.2	0.0	35791	35786	637.60	
1991-075B		21766	ESA	29 OCT	602.2	7.1	34193	292	2.20	
1991-076A	USA 72	21775	US	08 NOV	NO ELEMENTS AVAILABLE					
1991-076B		21776	US	08 NOV	NO ELEMENTS AVAILABLE					
1991-076C		21799	US	08 NOV	NO ELEMENTS AVAILABLE					
1991-076D	USA 76	21808	US	08 NOV	NO ELEMENTS AVAILABLE					
1991-076E		21809	US	08 NOV	NO ELEMENTS AVAILABLE					
1991-076F	USA 77	21956	US	08 NOV	NO CURRENT ELEMENTS					
1991-076G		22813	US	08 NOV	NO CURRENT ELEMENTS					
1991-076H		22814	US	08 NOV	NO CURRENT ELEMENTS					
1991-077A	COSMOS 2165	21779	USSR	12 NOV	113.8	82.6	1411	1391	0.76	
1991-077B	COSMOS 2166	21780	USSR	12 NOV	113.9	82.6	1411	1403	2.28	
1991-077C	COSMOS 2167	21781	USSR	12 NOV	113.9	82.6	1411	1396	1.41	
1991-077D	COSMOS 2168	21782	USSR	12 NOV	113.8	82.6	1411	1386	1.94	
1991-077E	COSMOS 2169	21783	USSR	12 NOV	113.7	82.6	1411	1379	1.68	
1991-077F	COSMOS 2170	21784	USSR	12 NOV	114.0	82.6	1411	1409	2.15	
1991-077G		21785	USSR	12 NOV	114.7	82.6	1471	1410	6.32	
1991-079A	COSMOS 2172	21789	USSR	22 NOV	1436.2	0.3	35798	35776	6.20	
1991-079D		21792	USSR	22 NOV	1460.2	0.4	36275	36239	2.20	
1991-079F		21794	USSR	22 NOV	314.1	46.6	17689	168	0.10	
1991-080B	USA 75	21805	US	25 NOV	NO ELEMENTS AVAILABLE					
1991-080C		21806	US	25 NOV	NO ELEMENTS AVAILABLE					
1991-080D		21807	US	25 NOV	NO ELEMENTS AVAILABLE					
1991-081A	COSMOS 2173	21796	USSR	26 NOV	104.7	83.0	1015	943	1.45	
1991-081B		21797	USSR	26 NOV	104.6	83.0	1004	943	7.34	
1991-082A	USA 73	21798	US	28 NOV	101.8	99.0	852	835	2.12	
1991-082B		21800	US	28 NOV	101.3	98.9	826	818	0.03	
1991-082C		21801	US	28 NOV	101.4	98.9	831	822	0.03	
1991-082D		21825	US	28 NOV	101.5	98.9	854	803	0.03	
1991-082E		21836	US	28 NOV	101.5	99.0	836	824	0.06	
1991-083A	EUTELSAT II	21803	ESA	07 DEC	1436.1	0.0	35880	35692	0.60	
1991-083B		21804	ESA	07 DEC	753.6	17.7	41261	846	2.00	
1991-084A	TELECOM 2A	21813	FRANCE	16 DEC	1436.1	0.1	35801	35773	26.30	
1991-084B	INMARSAT 2 F-3	21814	ITSO	16 DEC	1436.1	1.4	35795	35778	1.20	
1991-084C		21815	ESA	16 DEC	642.8	4.2	36157	431	0.50	
1991-084D		21818	ESA	16 DEC	618.2	4.2	34947	371	1.20	
1991-086A	INTERCOSMOS 25	21819	USSR	18 DEC	121.4	82.6	3048	435	11.35	
1991-086B		21820	USSR	18 DEC	121.5	82.6	3058	434	6.02	
1991-086C		21826	USSR	18 DEC	119.9	82.6	2916	433	0.09	
1991-086D		21827	USSR	18 DEC	120.0	82.5	3045	436	0.53	
1991-086E	MAGION 3	21835	CZECH	18 DEC	121.3	82.6	3045	436	0.03	
1991-086F		21905	USSR	18 DEC	118.9	82.6	2984	441	0.00	
1991-086G		22845	USSR	18 DEC	120.7	82.5	2837	424	0.00	
1991-087A	RADUGA 28	21821	USSR	19 DEC	1436.3	0.1	35798	35783	10.00	
1991-087D		21824	USSR	19 DEC	1469.1	0.2	36498	36362	2.00	
1991-087F		21829	USSR	19 DEC	426.4	46.8	24567	210	0.10	
1991-088A	PRC 34	21833	PRC	28 DEC	632.6	31.5	34047	2017	0.80	

## 1992 LAUNCHES

1992-003A

COSMOS 2176

21847

USSR

24 JAN

717.7

65.0

39136

1213

5.10

## OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1992-003D		21850	USSR	24 JAN	706.1	65.5	38530	1247	0.60	
1992-005A	COSMOS 2177	21853	USSR	29 JAN	675.7	64.8	19146	19112	0.90	
1992-005B	COSMOS 2178	21854	USSR	31 JAN	675.7	64.9	19171	19087	0.60	
1992-005C	COSMOS 2179	21855	USSR	29 JAN	675.7	64.9	19148	19111	0.90	
1992-005F		21858	USSR	29 JAN	675.4	64.9	19187	19053	3.10	
1992-005G		21862	USSR	29 JAN	340.0	65.0	19040	477	0.87	
1992-005H		21863	USSR	29 JAN	340.0	65.0	19039	476	13.50	
1992-006A	USA 78	21873	US	10 FEB	NO	ELEMENTS AVAILABLE				
1992-006B		21874	US	10 FEB	NO	ELEMENTS AVAILABLE				
1992-006C		21877	US	10 FEB	NO	ELEMENTS AVAILABLE				
1992-007A	UERS-1	21867	JAPAN	11 FEB	96.0	97.7	568	567	6.45	
1992-007B		21868	JAPAN	11 FEB	92.8	97.7	439	383	7.55	
1992-008A	COSMOS 2180	21875	USSR	17 FEB	104.8	82.9	1012	958	3.63	
1992-008B		21876	USSR	17 FEB	104.7	82.9	1006	956	10.48	
1992-009A	USA 79	21890	US	23 FEB	718.0	54.2	20332	20032	2.00	
1992-009B		21891	US	23 FEB	98.3	20.0	722	629	16.31	
1992-009C		21892	US	23 FEB	292.6	34.6	16250	192	0.20	
1992-010A	SUPERBIRD B1	21893	JAPAN	26 FEB	1436.2	0.0	35804	35771	0.70	
1992-010B	ARABSAT 1C	21894	SA	26 FEB	1436.1	0.0	35814	35759	0.50	
1992-010C		21895	ESA	26 FEB	431.9	6.7	24858	238	0.20	
1992-011A	MOLNIYA 1-83	21897	USSR	04 MAR	717.8	63.2	39530	823	0.70	
1992-011D		21900	USSR	04 MAR	698.3	63.3	38594	797	0.70	
1992-012A	COSMOS 2181	21902	USSR	09 MAR	104.9	82.9	1010	970	4.78	
1992-012B		21903	USSR	09 MAR	104.7	82.9	1004	960	10.93	
1992-013A	GALAXY 5	21906	US	14 MAR	1436.1	0.0	35795	35782	19.90	
1992-013B		21907	US	14 MAR	638.5	19.1	35216	1151	18.90	
1992-017A	GORIZONT 25	21922	USSR	02 APR	1436.0	0.2	35787	35783	0.31	
1992-017D		21925	USSR	02 APR	1424.6	0.2	35645	35475	10.00	
1992-019A	USA 80	21930	US	10 APR	718.0	55.6	20338	20026	1.10	
1992-019B		21931	US	10 APR	97.1	21.2	709	533	13.15	
1992-019C		21932	US	10 APR	296.6	34.6	16517	192	0.20	
1992-020A	COSMOS 2184	21937	USSR	15 APR	104.9	82.9	1013	962	3.89	
1992-020B		21938	USSR	15 APR	104.7	82.9	1002	960	9.97	
1992-021A	TELECOM 2B	21939	FRANCE	15 APR	1436.1	0.0	35804	35769	77.00	
1992-021B	INMARSAT 2 F4	21940	IM	15 APR	1436.1	2.4	35801	35771	0.70	
1992-021C		21941	ESA	15 APR	617.1	3.6	35045	218	15.00	
1992-021D		21942	ESA	15 APR	610.2	3.6	34614	291	4.00	
1992-021E		22850	ESA	15 APR	641.1	3.3	35592	908	0.00	
1992-021F		22851	ESA	15 APR	611.2	3.6	34719	235	0.00	
1992-023A		21949	US	25 APR	NO	ELEMENTS AVAILABLE				
1992-023B	USA 81	21950	US	25 APR	NO	ELEMENTS AVAILABLE				
1992-023B		21964	INDO	14 MAY	1436.2	0.0	35790	35785	3.50	
1992-027A	PALAPA-B4	21965	US	14 MAY	119.3	19.7	2789	507	13.71	
1992-027B		21966	US	14 MAY	701.4	22.7	36704	2840	0.30	
1992-027C		21976	USSR	03 JUN	114.6	74.0	1478	1399	0.64	
1992-030A		21977	USSR	03 JUN	114.5	74.0	1477	1386	0.30	
1992-030B	COSMOS 2188	21978	USSR	03 JUN	114.8	74.0	1478	1414	0.77	
1992-030C	COSMOS 2189	21979	USSR	03 JUN	115.0	74.0	1478	1428	0.69	
1992-030D	COSMOS 2190	21980	USSR	03 JUN	115.7	74.0	1499	1471	0.68	
1992-030E	COSMOS 2191	21981	USSR	03 JUN	115.5	74.0	1483	1470	0.69	
1992-030F	COSMOS 2192	21982	USSR	03 JUN	115.1	74.0	1478	1444	0.72	
1992-030G	COSMOS 2193	21983	USSR	03 JUN	115.3	74.0	1482	1456	0.82	
1992-030H		21984	USSR	03 JUN	117.8	74.0	1680	1481	12.02	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1992-058B		22109	US	09 SEP	98.7	19.8	728	661	10.56	
1992-058C		22110	US	09 SEP	308.3	34.7	17296	184	0.20	
1992-059A	COSMOS 2209	22112	USSR	10 SEP	1436.2	0.4	35790	35787	8.00	
1992-059D		22115	USSR	10 SEP	1443.0	0.3	35976	35867	2.10	
1992-060A	HISPASAT 1A	22116	SPAIN	10 SEP	1436.2	0.1	35794	35784	91.70	
1992-060B	SATCOM C3	22117	US	10 SEP	1436.1	0.1	35789	35784	13.30	
1992-060D		22119	SPAIN	10 SEP	212.5	7.2	10686	150	0.60	
1992-063A	MARS	22136	US	25 SEP	MARS ORBIT					
1992-063C		22138	US	25 SEP	108.9	63.0	1763	590	5.86	
1992-064A	FREUA	22161	SWEDEN	06 OCT	1436.1	0.0	35801	35770	4.08	
1992-066A	DFS 3	22175	FRG	12 OCT	132.7	25.1	3074	1409	19.98	
1992-066B		22176	US	12 OCT	658.5	19.0	35929	1458	3.17	
1992-066C		22177	US	12 OCT	NO CURRENT ELEMENTS					
1992-067A	MOLNIYA 3-42	22178	USSR	14 OCT	733.6	63.0	40004	1127	9.00	
1992-067D		22181	USSR	20 OCT	113.9	82.6	1411	1397	1.80	
1992-068A	COSMOS 2211	22182	USSR	20 OCT	114.0	82.6	1411	1405	2.90	
1992-068B	COSMOS 2212	22183	USSR	20 OCT	114.0	82.6	1412	1408	2.08	
1992-068C	COSMOS 2213	22184	USSR	20 OCT	114.1	82.6	1420	1409	1.51	
1992-068D	COSMOS 2214	22185	USSR	20 OCT	114.2	82.6	1426	1409	2.25	
1992-068E	COSMOS 2215	22186	USSR	20 OCT	114.0	82.6	1414	1406	0.97	
1992-068F	COSMOS 2216	22187	USSR	20 OCT	114.0	82.6	1477	1406	7.14	
1992-068G		22188	USSR	20 OCT	114.7	82.6	1477	1406	2.70	
1992-069A	COSMOS 2217	22189	USSR	21 OCT	718.0	63.7	39193	1174	2.70	
1992-069D		22192	USSR	21 OCT	709.9	64.1	38768	1199	7.90	
1992-070B	LAGEDS II	22195	ITALY	22 OCT	222.5	52.6	5952	5615	0.10	
1992-070D		22196	US	22 OCT	151.3	41.3	5763	293	3.20	
1992-070E		22197	US	22 OCT	222.4	52.6	5951	5613	3.65	
1992-070G		22535	US	22 OCT	149.2	41.2	5575	303	0.05	
1992-072A	GALAXY VII	22205	US	28 OCT	1436.1	0.0	35849	35728	267.40	
1992-072B		22206	FRANCE	28 OCT	404.4	7.2	23311	160	1.20	
1992-072C		22670	US	28 OCT	478.6	7.4	27503	274	2.43	
1992-073A	COSMOS 2218	22207	USSR	29 OCT	104.9	82.9	1012	964	4.34	
1992-073B		22208	USSR	29 OCT	104.7	82.9	1004	957	15.13	
1992-074A	EKRAN 20	22210	USSR	30 OCT	1436.3	0.7	35803	35778	0.31	
1992-074D		22213	USSR	30 OCT	1423.8	0.6	35636	35454	2.00	
1992-074E		22215	USSR	30 OCT	162.2	46.6	6827	122	0.80	
1992-076A	COSMOS 2219	22219	USSR	17 NOV	101.9	71.0	854	845	11.66	
1992-076B		22220	USSR	17 NOV	101.7	71.0	848	830	18.37	
1992-076C		22221	USSR	17 NOV	104.7	71.0	1118	840	0.09	
1992-076D		22222	USSR	17 NOV	105.2	71.0	1168	840	0.09	
1992-076E		22223	USSR	17 NOV	104.8	71.0	1133	838	0.09	
1992-076F		22224	USSR	17 NOV	104.9	71.0	1135	840	0.07	
1992-079A	USA 85	22231	US	22 NOV	NO CURRENT ELEMENTS					
1992-079B		22232	US	22 NOV	97.2	21.2	721	530	16.32	
1992-079C		22233	US	22 NOV	294.1	34.7	16350	194	0.30	
1992-080A	COSMOS 2221	22236	USSR	24 NOV	97.7	82.5	662	630	14.39	
1992-080B		22237	USSR	24 NOV	97.6	82.5	661	629	7.32	
1992-081A	COSMOS 2222	22238	USSR	25 NOV	718.1	62.9	39195	1172	2.50	
1992-081D		22241	USSR	25 NOV	707.8	63.3	38563	1298	6.31	
1992-082A	GDRIZONT 27	22245	USSR	27 NOV	1436.2	0.7	35799	35778	0.31	
1992-082D		22248	USSR	27 NOV	1469.1	0.6	36467	36391	2.50	
1992-082F		22250	USSR	27 NOV	480.6	46.5	27725	164	10.00	
1992-083A	USA 86	22251	US	28 NOV	NO ELEMENTS AVAILABLE					

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1992-083B	SUPERBIRD A 1	22252	US	28 NOV	NO ELEMENTS AVAILABLE					
1992-084A		22253	JAPAN	01 DEC	1436.1	0.0	35800	35774	6.31	
1992-084B		22254	FRG	01 DEC	620.0	7.2	35140	273	6.70	
1992-085A		22255	USSR	02 DEC	717.6	63.3	39989	356	1.30	
1992-085D	MOLNIYA 3-43	22258	USSR	02 DEC	697.5	63.4	38957	391	5.01	
1992-086B		22518	US	02 DEC	NO ELEMENTS AVAILABLE					1*
1992-086C	USA 89	22519	US	02 DEC	NO ELEMENTS AVAILABLE					
1992-088A		22269	USSR	17 DEC	1436.2	1.6	35865	35710	1.00	
1992-088D		22272	USSR	17 DEC	1438.8	1.6	35885	35795	2.00	
1992-088E		22273	USSR	17 DEC	617.7	46.5	35064	228	0.10	
1992-088F	USA 87	22274	USSR	17 DEC	514.9	46.5	29622	183	1.58	
1992-089A		22275	US	18 DEC	718.0	54.7	20324	20038	0.10	
1992-089B		22276	US	18 DEC	98.3	20.3	738	613	11.91	
1992-089C		22277	US	18 DEC	297.1	35.0	16517	191	3.48	
1992-089D	AUSSAT B2	22849	US	18 DEC	330.2	35.0	18683	208	0.00	
1992-090A		22278	AUSTRA	21 DEC	94.9	28.1	820	207	7.96	
1992-092A		22282	USSR	22 DEC	116.0	73.6	1522	1477	15.00	
1992-092B		22283	USSR	22 DEC	115.3	73.6	1515	1424	5.64	
1992-092AP	COSMOS 2226	22350	USSR	25 DEC	102.6	70.9	931	828	0.55	
1992-092BX		22382	USSR	25 DEC	104.5	70.9	1104	833	0.05	
1992-093A		22284	USSR	25 DEC	101.9	71.0	855	841	8.14	
1992-093B TO 093JD			USSR	25 DEC	SEE NOTE					38*
1992-094A	COSMOS 2228	22286	USSR	25 DEC	97.7	82.5	665	628	8.70	
1992-094B		22287	USSR	25 DEC	97.7	82.5	664	628	6.22	
1992-094HD		22543	USSR	25 DEC	103.9	71.3	1054	828	0.03	

## 1993 LAUNCHES

1993-001A	COSMOS 2230	22307	USSR	01 JAN	104.8	82.9	1006	967	2.66	
1993-001B		22308	USSR	01 JAN	104.7	82.9	1000	956	9.93	
1993-002A		22309	USSR	13 JAN	717.7	63.4	39822	528	0.50	
1993-002D		22312	USSR	13 JAN	731.9	63.6	40554	495	0.60	
1993-003B	TDRS 6	22314	US	13 JAN	1436.0	0.6	35792	35779	10.00	1*
1993-003C		22315	US	13 JAN	619.0	27.4	35127	237	14.21	
1993-003D		22316	US	13 JAN	1438.1	1.8	36115	35534	0.31	
1993-006A		22321	USSR	26 JAN	717.6	62.9	39557	786	3.90	
1993-006D	COSMOS 2232	22324	USSR	26 JAN	706.8	63.1	38977	835	0.70	
1993-007A		22446	US	03 FEB	718.0	54.8	20359	0	0.30	
1993-007B		22447	US	03 FEB	97.7	20.9	727	565	13.57	
1993-007C		22448	US	03 FEB	304.1	34.7	17024	181	0.10	
1993-008A	COSMOS 2233	22487	USSR	09 FEB	104.7	82.9	1007	949	4.12	
1993-008B		22488	USSR	09 FEB	104.5	82.9	997	948	10.10	
1993-009A		22489	US	09 FEB	100.1	25.0	795	731	2.36	
1993-009B		22490	US	09 FEB	100.1	25.0	794	728	2.27	
1993-009C	DXP-1	22491	BRAZIL	09 FEB	99.8	25.0	791	710	0.18	
1993-010A		22512	USSR	17 FEB	675.7	64.9	19152	19106	1.20	
1993-010B		22513	USSR	17 FEB	675.7	64.9	19147	19111	0.40	
1993-010C		22514	USSR	17 FEB	675.7	64.9	19165	19093	10.00	
1993-010F	COSMOS 2236	22517	USSR	17 FEB	674.7	64.9	19126	19083	2.50	
1993-010G		22524	USSR	17 FEB	340.2	64.9	19120	406	0.10	
1993-010H		22528	USSR	17 FEB	340.1	65.0	19118	407	0.10	
1993-011A		22521	USSR	20 FEB	96.5	31.1	646	539	3.23	
1993-011B	ASTRO D	22522	JAPAN	22 FEB	96.1	31.1	610	528	7.65	

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1993-011C		22523	JAPAN	20 FEB	94.9	31.1	537	493	0.06	
1993-011D		22534	JAPAN	20 FEB	96.2	30.9	604	545	0.05	
1993-011E		22587	JAPAN	20 FEB	95.7	31.1	585	515	0.09	
1993-011F		22628	JAPAN	20 FEB	95.6	31.1	583	516	0.13	
1993-011G		22821	JAPAN	20 FEB	95.5	31.4	613	472	0.00	
1993-011H		22822	JAPAN	20 FEB	95.8	30.9	616	497	0.00	
1993-013A	RADUGA 29	22557	USSR	25 MAR	1436.3	1.0	35802	35778	0.31	
1993-013D		22624	USSR	25 MAR	1473.1	1.5	36929	36087	0.31	
1993-013G		22625	USSR	25 MAR	1469.2	0.9	36504	36360	0.31	
1993-014A	START-1	22561	USSR	25 MAR	101.4	75.8	968	680	6.20	
1993-014B		22562	USSR	25 MAR	101.0	75.8	931	679	2.01	
1993-014C		22567	USSR	25 MAR	101.5	75.8	979	679	0.06	
1993-014D		22568	USSR	25 MAR	101.5	75.8	979	677	0.07	
1993-014E		22599	USSR	25 MAR	101.4	75.8	967	677	0.06	
1993-015A	UHF F1	22563	US	25 MAR	1451.0	27.1	36111	36042	5.60	
1993-015B		22564	US	25 MAR	184.6	27.3	8504	220	29.24	
1993-016A	COSMOS 2237	22565	USSR	26 MAR	101.9	71.0	852	845	14.88	
1993-016B	TO 016AG		USSR	26 MAR	SEE NOTE		39*			39*
1993-017A	USA 90	22581	US	30 MAR	718.0	55.0	20293	20072	1.80	
1993-017C		22583	US	30 MAR	100.1	36.2	1220	306	8.86	
1993-017D		22584	US	30 MAR	326.7	34.7	18471	196	3.29	
1993-018A	COSMOS 2238	22585	USSR	30 MAR	92.7	65.0	416	402	31.33	
1993-019A	PROGRESS M-17	22588	USSR	31 MAR	91.8	51.6	365	362	0.31	
1993-020A	COSMOS 2239	22590	USSR	01 APR	104.7	82.9	995	963	2.80	
1993-020B		22591	USSR	01 APR	104.6	82.9	986	962	7.95	
1993-022A	COSMOS 2241	22594	USSR	06 APR	717.7	63.6	39520	832	3.20	
1993-022D		22597	USSR	06 APR	703.1	64.0	38755	872	0.50	
1993-024A	COSMOS 2242	22626	USSR	16 APR	97.7	82.5	664	630	13.07	
1993-024B		22627	USSR	16 APR	97.7	82.5	663	629	15.00	
1993-025A	MDLNIYA 3-44	22633	USSR	21 APR	717.7	62.9	39603	744	1.00	
1993-025D		22636	USSR	21 APR	734.9	62.9	40403	794	0.60	
1993-026A	ALEXIS	22638	US	25 APR	NO ELEMENTS AVAILABLE					
1993-026B		22639	US	25 APR	NO ELEMENTS AVAILABLE					
1993-026C		22785	US	25 APR	NO CURRENT ELEMENTS					
1993-026D		22786	US	25 APR	NO CURRENT ELEMENTS					
1993-029A	COSMOS 2244	22643	USSR	28 APR	92.8	65.0	416	402	38.89	
1993-030A	COSMOS 2245	22646	USSR	11 MAY	113.9	82.6	1414	1395	3.72	
1993-030B	COSMOS 2246	22647	USSR	11 MAY	113.9	82.6	1414	1398	1.82	
1993-030C	COSMOS 2247	22648	USSR	11 MAY	114.0	82.6	1414	1401	4.13	
1993-030D	COSMOS 2248	22649	USSR	11 MAY	113.9	82.6	1414	1399	1.71	
1993-030E	COSMOS 2249	22650	USSR	11 MAY	114.0	82.6	1414	1401	5.70	
1993-030F	COSMOS 2250	22651	USSR	11 MAY	114.0	82.6	1415	1400	1.52	
1993-030G		22652	USSR	11 MAY	114.0	82.6	1414	1401	2.60	
1993-031A	ASTRA-1C	22653	LUX	12 MAY	1436.1	0.0	35798	35777	0.70	
1993-031B	ARASENE	22654	FRANCE	12 MAY	1012.8	1.4	36834	17222	0.10	
1993-031C		22655	LUX	12 MAY	638.1	5.3	36036	311	2.30	
1993-031D		22656	LUX	12 MAY	613.4	5.2	34811	260	0.30	
1993-032A	USA 91	22657	US	13 MAY	718.0	55.1	20345	20017	1.00	
1993-032B		22658	US	13 MAY	96.8	21.9	733	476	12.59	
1993-032C		22659	US	13 MAY	335.9	34.8	19071	186	0.20	
1993-034C		22708	USSR	22 MAY	91.0	51.6	333	318	0.04	
1993-035A	MDLNIYA 1-86	22671	USSR	26 MAY	717.8	62.9	39672	681	0.90	
1993-035D		22674	USSR	26 MAY	732.9	62.9	40354	745	6.09	

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MINUTESINCLT-  
NATIONAPOGEE  
(KM)PERIGEE  
(KM)RCS  
(SQ. M)FOOT-  
NOTES

1993-036A	COSMOS 2251	22675	USSR	16 JUN	100.7	74.0	803	778	0.00	
1993-036B		22676	USSR	16 JUN	100.6	74.0	799	773	10.45	
1993-038A	COSMOS 2252	22687	USSR	24 JUN	114.0	82.6	1413	1401	6.13	
1993-038B	COSMOS 2253	22688	USSR	24 JUN	114.1	82.6	1422	1407	1.17	
1993-038C	COSMOS 2254	22689	USSR	24 JUN	113.8	82.6	1411	1390	1.20	
1993-038D	COSMOS 2255	22690	USSR	24 JUN	113.9	82.6	1412	1402	0.00	
1993-038E	COSMOS 2256	22691	USSR	24 JUN	113.9	82.6	1411	1398	1.20	
1993-038F	COSMOS 2257	22692	USSR	24 JUN	114.0	82.6	1417	1406	1.11	
1993-038G		22693	USSR	24 JUN	114.7	82.6	1477	1406	4.56	
1993-039A	GALAXY 4	22694	US	25 JUN	1436.2	0.0	35797	35780	0.31	
1993-041A	RADCAL	22698	US	25 JUN	101.3	89.6	884	750	0.75	
1993-041B		22699	US	25 JUN	101.3	89.6	888	752	0.51	
1993-041C		22706	US	25 JUN	100.7	89.3	818	764	0.06	
1993-041D	USA 92	22707	US	25 JUN	101.8	89.9	960	723	0.04	
1993-042A		22700	US	26 JUN	717.9	54.6	20248	20114	0.00	
1993-042C		22702	US	26 JUN	717.9	54.6	19286	212	1.90	
1993-043A	SOYUZ TM-17	22704	USSR	01 JUL	339.7	34.7	397	388	0.31	
1993-044A	COSMOS 2258	22709	USSR	07 JUL	92.4	51.6	417	400	35.95	
1993-046A	USA 93	22719	US	19 JUL	92.8	65.0				
1993-046B		22720	US	19 JUL						
1993-046C		22738	US	19 JUL						
1993-048A	HISPASAT 1B	22723	SPAIN	22 JUL	1432.8	0.1	35785	35659	16.28	
1993-048B	INSAT 2B	22724	INDIA	22 JUL	1436.2	0.1	35802	35774	0.31	
1993-048C		22725	ESA	22 JUL	643.1	7.1	36265	336	0.31	
1993-048D		22726	USSR	22 JUL	617.4	7.2	35030	248	19.09	
1993-049A		22729	USSR	04 AUG	717.7	62.8	39841	511	0.00	
1993-049D	MOLNIYA 3-45	22732	USSR	04 AUG	699.5	62.9	38850	599	0.00	
1993-050A		22739	US	09 AUG	102.0	98.9	861	845	5.10	
1993-050B	NOAA 13	22740	US	09 AUG	102.0	98.9	857	850	0.00	
1993-050C		22801	US	09 AUG	102.0	98.9	855	848	0.07	
1993-051A	COSMOS 2261	22741	USSR	10 AUG	718.0	63.0	39674	690	6.31	
1993-051D		22744	USSR	10 AUG	707.7	63.1	39061	796	7.94	
1993-054A	USA 94	22779	US	30 AUG	718.0	54.9	20255	20110	10.00	
1993-054B		22780	US	30 AUG	96.5	22.0	721	457	1.98	
1993-054C		22781	US	30 AUG	346.1	34.8	19688	216	3.00	
1993-055A	METEOR 2-21	22782	USSR	31 AUG	104.1	82.5	967	933	0.00	
1993-055B	TEMISAT	22783	ITALY	31 AUG	104.0	82.5	967	932	0.00	
1993-055C		22784	USSR	31 AUG	104.1	82.5	966	933	0.00	
1993-056A	USA 95	22787	US	03 SEP	1436.1	5.0	35808	35764	10.00	
1993-056B		22788	US	03 SEP	268.9	26.9	14623	219	19.95	
1993-058B	ACTIS	22796	US	12 SEP	1437.8	0.2	35929	35709	14.00	
1993-058D		22797	US	12 SEP	716.0	15.4	39909	359	8.00	
1993-059A	COSMOS 2263	22802	USSR	16 SEP	101.9	71.0	856	842	12.12	
1993-059B		22803	USSR	16 SEP	101.7	71.0	848	826	20.74	
1993-059C		22804	USSR	16 SEP	105.1	71.0	1160	839	0.09	
1993-059D		22805	USSR	16 SEP	105.2	71.0	1166	841	0.00	
1993-059E		22806	USSR	16 SEP	105.0	71.0	1145	840	0.07	
1993-059F		22807	USSR	16 SEP	105.1	71.0	1154	841	0.06	
1993-060A	COSMOS 2264	22808	USSR	17 SEP	92.7	65.0	417	401	13.84	
1993-061A	SPOT 3	22823	FRANCE	26 SEP	101.3	98.7	823	821	2.00	
1993-061B	STELLA	22824	FRANCE	26 SEP	100.8	98.7	803	793	0.16	
1993-061C	EYESAT 1	22825	US	26 SEP	100.8	98.7	803	790	0.00	
1993-061D	ITAMSAT	22826	ITALY	26 SEP	100.8	98.7	803	789	0.14	

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INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT									
NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOTNOTES		
HEALTHSAT	22827	US	26 SEP	100.8	98.7	802	789	0.42			
1993-061E	22828	ESA	26 SEP	100.8	98.7	803	789	1.00			
1993-061F	22829	PORTUG	26 SEP	100.8	98.7	802	788	23.02			
1993-061G	22830	KOREA	26 SEP	100.8	98.6	803	787	32.81			
1993-061H	22836	USSR	30 SEP	1436.0	1.3	35814	35755	0.00			
1993-062A	22839	USSR	30 SEP	1437.8	1.4	35892	35748	0.00			
1993-062D	22859	PRC	08 OCT	116.5	56.6	2868	181	0.00			
1993-063A	22871	ESA	22 OCT	1436.3	0.0	35910	35669	0.00			
1993-066A	22906	ESA	22 OCT	618.8	6.9	35209	142	0.00			
1993-066B	22875	USSR	26 OCT	103.5	82.9	1558	290	0.00			
1993-067A	22876	USSR	26 OCT	103.3	82.9	1544	285	0.00			
1993-067B	22877	US	26 OCT	718.0	55.1	20260	20104	0.00			
1993-068A	22878	US	26 OCT	94.5	35.2	532	453	0.00			
1993-068B	22879	US	26 OCT	355.1	34.9	20286	177	0.00			
1993-068C	22880	USSR	28 OCT	1435.3	1.5	35789	35752	0.00			
1993-069A	22883	USSR	28 OCT	1433.0	1.5	35747	35704	0.00			
1993-069D	22884	USSR	28 OCT	630.0	47.3	35723	209	0.00			
1993-069E	22885	USSR	28 OCT	632.8	47.2	35805	268	0.00			
1993-069F	22888	USSR	02 NOV	104.7	83.0	1017	945	0.00			
1993-070A	22889	USSR	02 NOV	104.5	82.9	1008	937	0.00			
1993-070B	22904	USSR	05 NOV	89.6	70.4	281	228	0.00			
1993-071A	22907	USSR	18 NOV	1432.4	1.5	35872	35554	0.00			
1993-072A	22910	USSR	18 NOV	1395.8	1.4	35062	34927	0.00			
1993-072D	22925	USSR	18 NOV	619.1	47.3	35054	316	0.00			
1993-072E	22926	USSR	18 NOV	617.6	47.3	35038	252	0.00			
1993-073A	22911	MEXICO	20 NOV	1233.3	0.4	35690	27744	0.00			
1993-073B	22912	ESA	20 NOV	1432.5	1.2	35757	35674	0.00			
1993-073C	22913	FRANCE	20 NOV	633.5	6.6	35921	189	0.00			
1993-074A	22914	FRANCE	20 NOV	614.7	6.8	34930	208	0.00			
1993-074B	22915	US	28 NOV	NO CURRENT ELEMENTS							
1993-074C	22916	US	28 NOV	NO CURRENT ELEMENTS							
1993-076A	22924	US	08 DEC	644.5	23.3	35914	762	0.00			
1993-076B	22921	US	08 DEC	109.8	23.1	2116	316	0.00			
1993-076C	22922	US	08 DEC	642.9	23.2	35844	748	0.00			
1993-077A	22923	US	16 DEC	94.9	28.4	530	501	0.00			
1993-077B	22928	US	16 DEC	625.3	24.0	35505	182	0.00			
1993-077C	22930	US	18 DEC	638.4	4.0	36146	215	0.00			
1993-078A	22931	THAIL	18 DEC	638.9	3.6	36206	180	0.00			
1993-078B	22932	ESA	18 DEC	528.4	4.2	30410	132	0.00			
1993-078C	22933	ESA	18 DEC	638.0	3.9	36129	213	0.00			
1993-078D	22949	USSR	22 DEC	703.1	62.8	39188	437	0.00			
1993-079A	22950	USSR	22 DEC	90.0	62.8	347	201	0.00			
1993-079B	22951	USSR	22 DEC	90.0	62.8	369	180	0.00			
1993-079C	22952	USSR	22 DEC	699.2	62.8	39005	427	0.00			



INITIAL ELEMENTS OF THE OBJECTS WHICH WERE LAUNCHED/CATALOGED AND DECAYED WITHIN THE REPORTING PERIOD

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1993 LAUNCHES										
1993-002B		22310	USSR	13 JAN	92.6	62.8	615	221		
1993-002C		22311	USSR	13 JAN	92.6	62.8	647	187		
1993-003A	STS 54	22313	US	13 JAN	90.7	28.5	312	305		
1993-004A	COSMOS 2231	22317	USSR	19 JAN	89.6	67.1	369	176		
1993-004B		22318	USSR	19 JAN	89.2	67.1	338	173		
1993-005A	SOYUZ TM-16	22319	USSR	24 JAN	88.4	51.5	224	186		
1993-005B		22320	USSR	24 JAN	88.5	51.6	221	190		
1993-006B		22322	USSR	26 JAN	92.4	62.7	591	223		
1993-006C		22323	USSR	26 JAN	92.1	62.8	597	187		
1993-006E		22325	USSR	26 JAN	92.0	62.8	556	216		
1993-010D		22515	USSR	17 FEB	INITIAL ELEMENTS NOT AVAILABLE					
1993-010E		22516	USSR	17 FEB	INITIAL ELEMENTS NOT AVAILABLE					
1993-012A	PROGRESS M-16	22530	USSR	21 FEB	88.6	51.6	252	189		
1993-012B		22531	USSR	21 FEB	88.5	51.6	244	190		
1993-013B		22558	USSR	25 MAR	87.7	51.6	184	164		
1993-013C		22559	USSR	25 MAR	INITIAL ELEMENTS NOT AVAILABLE					
1993-013E		22569	USSR	25 MAR	INITIAL ELEMENTS NOT AVAILABLE					
1993-013F		22570	USSR	25 MAR	INITIAL ELEMENTS NOT AVAILABLE					
1993-017B	SEDS 1	22582	US	30 MAR	NO ELEMENTS AVAILABLE					
1993-018B		22586	USSR	30 MAR	92.8	65.0	434	413		
1993-019B		22589	USSR	31 MAR	87.4	51.6	169	147		
1993-021A	COSMOS 2240	22592	USSR	02 APR	89.6	62.8	342	196		
1993-021B		22593	USSR	02 APR	62.8	89.5	332	195		
1993-022C		22595	USSR	06 APR	92.3	62.7	590	215		
1993-022E		22596	USSR	06 APR	62.8	92.5	640	183		
1993-022F		22629	USSR	06 APR	62.8	91.4	507	204		
1993-023A	STS 56	22630	USSR	06 APR	91.8	62.8	547	209		
1993-023B	SPARTAN 201	22621	US	08 APR	90.4	57.0	302	293		
1993-025B		22623	US	08 APR	90.3	57.0	311	295		
1993-025C		22634	USSR	21 APR	92.2	62.8	580	218		
1993-027A	STS 55	22635	USSR	21 APR	92.7	62.8	651	187		
1993-028A	COSMOS 2243	22640	US	26 APR	90.5	28.4	317	287		
1993-028B		22641	USSR	27 APR	88.6	70.3	249	191		
1993-029B		22642	USSR	27 APR	87.9	70.3	209	165		
1993-033A	RESURS F-2	22644	USSR	28 APR	INITIAL ELEMENTS NOT AVAILABLE					
1993-033B		22663	USSR	21 MAY	88.9	82.5	286	193		
1993-033C		22664	USSR	21 MAY	88.8	82.5	280	193		
1993-033D		22681	USSR	21 MAY	87.6	82.5	189	149		
1993-033E		22682	USSR	21 MAY	89.0	82.5	259	215		
1993-033F		22685	USSR	21 MAY	90.0	82.5	331	226		
1993-034A	PROGRESS M-18	22686	USSR	21 MAY	89.2	82.5	275	203		
1993-034B		22666	USSR	22 MAY	88.7	51.6	256	193		
1993-035B		22667	USSR	22 MAY	88.6	51.6	251	192		
1993-035C		22672	USSR	26 MAY	90.7	62.8	430	213		
1993-037A	STS 57	22673	USSR	26 MAY	88.8	62.8	267	161		
1993-040A	RESURS F-18	22684	US	21 JUN	93.3	28.4	484	390		
1993-040B		22696	USSR	25 JUN	88.7	82.5	272	189		
1993-040C		22711	USSR	25 JUN	88.6	82.5	257	188		
1993-040D		22712	USSR	25 JUN	INITIAL ELEMENTS NOT AVAILABLE					

INITIAL ELEMENTS OF THE OBJECTS WHICH WERE LAUNCHED/CATALOGED AND DECAYED WITHIN THE REPORTING PERIOD										
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE (KM)	PERIGEE (KM)	RCS (SQ.M)	FOOT- NOTES
1993-040E		22713	USSR	25 JUN	INITIAL ELEMENTS NOT AVAILABLE					
1993-040F		22714	USSR	25 JUN	INITIAL ELEMENTS NOT AVAILABLE					
1993-040G		22715	USSR	25 JUN	INITIAL ELEMENTS NOT AVAILABLE					
1993-042B		22701	US	26 JUN	94.6	25.7	572	421		
1993-043B		22705	USSR	01 JUL	88.5	51.6	231	195		
1993-044B		22710	USSR	07 JUL	89.3	65.0	301	184		
1993-045A	COSMOS 2259	22716	USSR	14 JUL	89.7	67.0	375	180		
1993-045B		22717	USSR	14 JUL	89.6	67.1	372	176		
1993-047A		22721	USSR	22 JUL	88.6	82.2	256	193		
1993-047B	COSMOS 2260	22722	USSR	22 JUL	88.5	82.2	245	187		
1993-047C		22733	USSR	22 JUL	89.8	82.2	307	241		
1993-047D		22734	USSR	22 JUL	89.7	82.3	293	240		
1993-047E		22735	USSR	22 JUL	91.8	82.2	453	272		
1993-047F		22736	USSR	22 JUL	89.3	82.2	277	222		
1993-047G		22737	USSR	22 JUL	91.8	82.3	456	269		
1993-049B		22730	USSR	04 AUG	90.8	62.8	433	217		
1993-049C		22731	USSR	04 AUG	INITIAL ELEMENTS NOT AVAILABLE					
1993-051B		22742	USSR	10 AUG	92.3	62.8	578	223		
1993-051C		22743	USSR	10 AUG	92.3	62.8	611	190		
1993-052A	PROGRESS M-19	22745	USSR	10 AUG	88.4	51.8	240	184		
1993-052B		22746	USSR	10 AUG	88.4	51.6	235	181		
1993-053A	RESURS F-19	22777	USSR	24 AUG	88.7	82.5	268	189		
1993-053B		22778	USSR	24 AUG	88.6	82.5	261	188		
1993-053C		22791	USSR	24 AUG	89.7	82.5	246	225		
1993-053D		22792	USSR	24 AUG	89.8	82.5	252	233		
1993-053E		22793	USSR	24 AUG	90.5	82.5	364	199		
1993-053F		22794	USSR	24 AUG	89.7	82.5	340	179		
1993-057A	COSMOS 2262	22789	USSR	07 SEP	89.1	64.9	315	179		
1993-057B		22790	USSR	07 SEP	89.7	64.9	304	179		
1993-057C		22953	USSR	07 SEP	INITIAL ELEMENTS NOT AVAILABLE					
1993-058A	STS 51	22795	US	12 SEP	90.5	28.4	307	298		
1993-058C	ORFEUS SPA	22798	FRG	12 SEP	90.5	28.4	325	202		
1993-058E		22799	US	12 SEP	90.0	28.4	317	259		
1993-058F		22800	US	12 SEP	90.0	28.5	318	258		
1993-060B		22809	USSR	17 SEP	89.0	64.9	364	117		
1993-062B		22837	USSR	30 SEP	88.1	51.6	201	183		
1993-062C		22838	USSR	30 SEP	88.0	51.6	198	180		
1993-063B		22860	PRC	08 OCT	89.5	56.9	539	209		
1993-063C		22861	PRC	08 OCT	91.9	56.7	520	209		
1993-063D		22862	PRC	08 OCT	91.7	56.6	520	207		
1993-063E		22863	PRC	08 OCT	91.3	57.2	483	208		
1993-063F		22864	PRC	08 OCT	91.1	57.1	467	203		
1993-063G		22865	PRC	08 OCT	87.4	56.9	168	149		
1993-063H		22870	PRC	08 OCT	88.5	51.7	243	193		
1993-064A	PROGRESS M 20	22867	USSR	11 OCT	88.5	51.7	238	192		
1993-064B		22868	USSR	11 OCT	88.5	51.6	296	192		
1993-065A	STS 58	22869	US	18 OCT	90.3	39.0	207	286		
1993-069B		22881	USSR	28 OCT	88.2	51.6	207	186		
1993-069C		22882	USSR	28 OCT	86.4	51.6	117	101		
1993-071B		22905	USSR	05 NOV	87.9	70.3	205	162		
1993-072B		22908	USSR	18 NOV	88.2	51.6	210	192		
1993-072C		22909	USSR	18 NOV	INITIAL ELEMENTS NOT AVAILABLE					
1993-075A	STS-61	22917	US	02 DEC	94.3	28.4	571	407		

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963-014U			2373	US	09 MAY	23 JUN 93	
1963-014DZ			19032	US	09 MAY	27 AUG 93	
1963-014FE			20650	US	09 MAY	11 OCT 93	
1965-082BW			1715	US	15 OCT	04 FEB 93	
1965-082EB			1836	US	15 OCT	17 APR 93	
1966-026F			2179	US	31 MAR	20 APR 93	
1967-001T			5988	US	11 JAN	29 JAN 93	
1967-043B			2780	US	09 MAY	14 MAR 93	
1967-048D			19222	US	18 MAY	09 JAN 93	
1968-091CQ			14414	USSR	20 OCT	15 OCT 93	
1968-097EG			15536	USSR	01 NOV	04 JUL 93	
1969-046D			3954	US	23 MAY	01 JAN 93	
1969-046E			3955	US	23 MAY	01 JAN 93	
1969-069C			5991	US	12 AUG	01 JAN 93	
1969-082FV			4518	US	30 SEP	05 JUN 93	
1969-082GA			4523	US	30 SEP	26 AUG 93	
1970-027A			4366	US	08 APR	01 JAN 93	
1970-027B			4368	US	08 APR	01 JAN 93	
1971-015C			5009	USSR	25 FEB	11 APR 93	
1971-015AN			5191	USSR	25 FEB	28 JAN 93	
1972-058CH			7942	US	23 JUL	16 APR 93	
1972-058FC			8386	US	23 JUL	08 DEC 93	
1975-052HR			21597	US	12 JUN	16 MAR 93	
1976-024A		COSMOS 808	8754	USSR	16 MAR	20 NOV 93	
1976-039D			14514	US	04 MAY	08 DEC 93	
1976-067BL			18272	USSR	08 JUL	01 JAN 93	
1977-054A		MOLNIYA 1-37	10092	USSR	24 JUN	20 MAY 93	
1977-057A		METEOR	10113	USSR	29 JUN	28 AUG 93	
1977-061A		COSMOS 925	10134	USSR	07 JUL	29 APR 93	
1977-065DK			10313	US	14 JUL	31 MAY 93	
1977-068J			19881	USSR	20 JUL	01 MAR 93	
1977-082A		MOLNIYA 1-38	10315	USSR	30 AUG	28 SEP 93	
1978-026AD			12188	US	05 MAR	13 MAR 93	
1978-026BY			12231	US	05 MAR	19 MAR 93	
1978-026DM			12268	US	05 MAR	18 JUL 93	
1978-026HQ			19967	US	05 MAR	26 NOV 93	
1978-094C			22536	USSR	10 OCT	11 MAR 93	
1978-100AJ			19578	USSR	26 OCT	23 MAY 93	
1979-057D			22139	US	27 JUN	12 MAY 93	
1979-067A		COSMOS 1116	11457	USSR	20 JUL	11 MAR 93	
1980-030AQ			13932	USSR	18 APR	09 SEP 93	
1980-103A		PROGNOZ 8	12116	USSR	25 DEC	01 JAN 93	
1981-030D			12383	USSR	24 MAR	29 JUN 93	
1981-053JJ			14439	USSR	04 JUN	14 JAN 93	
1981-113A		MOLNIYA 1-51	12959	USSR	17 NOV	02 NOV 93	
1982-050E			13253	USSR	28 MAY	02 APR 93	
1983-046A		COSMOS 1463	14075	USSR	19 MAY	24 JAN 93	
1983-075Q			22898	USSR	24 JUL	12 NOV 93	
1983-075T			22901	USSR	24 JUL	19 NOV 93	
1983-123A		MOLNIYA 3-22	14570	USSR	21 DEC	18 AUG 93	
1984-023B			14787	ESA	05 MAR	06 APR 93	
1984-068A		COSMOS 1578	15080	USSR	28 JUN	10 JAN 93	

# OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTER-  
NATIONAL  
DESIGNATION

NAME

CATALOG  
NUMBER

SOURCE

LAUNCH

DECAY

NOTES

PROGN0Z 10

MAK 2

1984-106G	17358	USSR	28 SEP	03 JAN 93	
1984-106P	22146	USSR	28 SEP	27 MAR 93	
1985-033A	15661	USSR	26 APR	01 JAN 93	
1985-033D	15664	USSR	26 APR	01 JAN 93	
1986-017FU	21882	USSR	19 FEB	21 JAN 93	
1986-017FW	21884	USSR	19 FEB	18 JAN 93	
1986-017GF	22024	USSR	19 FEB	04 MAY 93	
1986-017GG	22045	USSR	19 FEB	04 MAY 93	
1986-017GJ	22106	USSR	19 FEB	26 FEB 93	
1986-017GW	22209	USSR	19 FEB	09 APR 93	
1986-017GX	22225	USSR	19 FEB	01 APR 93	
1986-017GZ	22622	USSR	19 FEB	15 OCT 93	
1986-017HA	22631	USSR	19 FEB	25 JUL 93	
1986-017HB	22632	USSR	19 FEB	25 APR 93	
1986-017HD	22677	USSR	19 FEB	09 AUG 93	
1986-017HE	22678	USSR	19 FEB	30 JUN 93	
1986-017HF	22679	USSR	19 FEB	01 NOV 93	
1986-017HG	22680	USSR	19 FEB	27 JUN 93	
1986-017HH	22703	USSR	19 FEB	06 NOV 93	
1986-017HJ	22810	USSR	19 FEB	11 OCT 93	
1986-017HP	22831	USSR	19 FEB	20 OCT 93	
1986-017HQ	22832	USSR	19 FEB	19 OCT 93	
1986-017HR	22833	USSR	19 FEB	19 OCT 93	
1986-017HV	22872	USSR	19 FEB	01 NOV 93	
1986-017HX	22874	USSR	19 FEB	15 DEC 93	
1986-017HZ	22874	USSR	19 FEB	26 DEC 93	
1986-019JK	22887	USSR	19 FEB	21 NOV 93	
1986-071G	17555	ESA	22 FEB	19 NOV 93	
1987-012K	16984	USSR	16 SEP	29 JAN 93	
1987-020P	18927	JAPAN	05 FEB	13 APR 93	
1987-020BG	18736	USSR	20 FEB	05 NOV 93	
1987-020BG	19147	USSR	20 FEB	23 SEP 93	
1987-041G	18687	USSR	13 MAY	06 APR 93	
1988-051D	19218	ESA	15 JUN	10 NOV 93	
1988-109D	19690	ESA	11 DEC	22 OCT 93	
1990-079C	20778	ESA	30 AUG	28 AUG 93	
1990-081BH	20897	PRC	03 SEP	21 JAN 93	
1990-104AG	22486	USSR	28 NOV	05 APR 93	
1991-005A	21065	USSR	18 JAN	28 MAR 93	
1991-005D	22299	USSR	18 JAN	02 JAN 93	
1991-062C	21696	JAPAN	30 AUG	27 JUN 93	
1991-062D	21697	JAPAN	30 AUG	04 AUG 93	
1991-062E	21698	JAPAN	30 AUG	11 MAY 93	
1991-062G	21786	JAPAN	30 AUG	09 JUN 93	
1991-088B	21834	PRC	28 DEC	12 APR 93	
1992-018A	21928	USSR	08 APR	16 FEB 93	
1992-043E	22047	USSR	14 JUL	18 JUN 93	
1992-044B	22050	US	24 JUL	16 MAR 93	
1992-044C	22051	US	24 JUL	01 JAN 93	
1992-046A	22054	USSR	27 JUL	01 FEB 93	
1992-049B	22065	ESA	31 JUL	01 JUL 93	
1992-059E	22125	USSR	10 SEP	31 MAR 93	
1992-059F	22126	USSR	10 SEP	07 MAY 93	

SOYUZ TM-15  
EURECA-1

COSMOS 2183

COSMOS 2122

INTER-NATIONAL DESIGNATION		OBJECTS DECAYED WITHIN THE REPORTING PERIOD			
NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1992-060C	PROGRESS M-15	22118	10 SEP	20 OCT 93	
1992-071A		22203	27 OCT	07 FEB 93	
1992-071C		22449	27 OCT	05 FEB 93	
1992-074F		22216	30 OCT	03 JUN 93	
1992-077A	COSMOS 2220	22226	20 NOV	18 JAN 93	
1992-078A		22229	21 NOV	18 JUL 93	
1992-078B	MSTI	22230	21 NOV	09 FEB 93	
1992-082E		22249	27 NOV	14 JUL 93	
1992-087A	COSMOS 2223	22260	09 DEC	16 DEC 93	
1992-087C		22929	09 DEC	19 DEC 93	
1992-090B	COSMOS 2225	22279	21 DEC	19 JUN 93	
1992-091A		22280	22 DEC	18 FEB 93	
1992-091C		22520	22 FEB	23 FEB 93	
1992-091D		22525	22 DEC	25 FEB 93	
1992-091E		22526	22 DEC	22 FEB 93	
1992-091F		22527	22 DEC	27 FEB 93	
1992-091G	COSMOS 2229	22529	22 DEC	24 FEB 93	
1992-093FY		22483	22 DEC	22 FEB 93	
1992-093HU		22548	25 DEC	19 MAY 93	
1992-095A		22300	29 DEC	10 JAN 93	
1992-095B		22301	29 DEC	16 JAN 93	
1992-095C		22302	29 DEC	11 FEB 93	
1992-095D	COSMOS 2231	22303	29 DEC	18 JAN 93	
1992-095E		22304	29 DEC	29 JAN 93	
1992-095F		22305	29 DEC	18 JAN 93	
1992-095G		22306	29 DEC	12 JAN 93	
1993-002B		22310	13 JAN	04 MAR 93	
1993-002C		22311	13 JAN	05 FEB 93	
1993-003A	STS 54	22313	13 JAN	19 JAN 93	
1993-004A		22317	19 JAN	25 MAR 93	
1993-004B		22318	24 JAN	23 JAN 93	
1993-005A		22319	24 JAN	22 JUL 93	
1993-005B	SOYUZ TM-16	22320	26 JAN	26 JAN 93	
1993-006B		22322	26 JAN	09 MAR 93	
1993-006C		22323	26 JAN	14 FEB 93	
1993-006E		22325	26 JAN	28 FEB 93	
1993-010D		22515	17 FEB	18 FEB 93	
1993-010E		22516	17 FEB	18 FEB 93	
1993-012A	PROGRESS M-16	22530	21 FEB	27 MAR 93	
1993-012B		22531	21 FEB	23 FEB 93	
1993-013B		22558	25 MAR	27 MAR 93	
1993-013C		22559	25 MAR	25 MAR 93	
1993-013E		22569	25 MAR	21 OCT 93	
1993-013F		22570	25 MAR	29 SEP 93	
1993-017B	SEDS 1	22582	30 MAR	30 MAR 93	
1993-018B		22586	30 MAR	31 MAR 93	
1993-019B		22589	31 MAR	01 APR 93	
1993-021A		22592	02 APR	07 JUN 93	
1993-021B	COSMOS 2240	22593	02 APR	07 APR 93	
1993-022B		22595	06 APR	10 MAY 93	
1993-022C		22596	06 APR	22 APR 93	
1993-022E		22629	06 APR	29 APR 93	

OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1993-022F	STS 56	22630	USSR	06 APR	05 MAY 93	
1993-023A	SPARTAN 201	22621	US	08 APR	17 APR 93	
1993-023B		22623	US	08 APR	13 APR 93	
1993-025B		22634	USSR	21 APR	30 MAY 93	
1993-025C		22635	USSR	21 APR	12 MAY 93	
1993-027A	STS 55	22640	US	26 APR	06 MAY 93	
1993-028A	COSMOS 2243	22641	USSR	27 APR	06 MAY 93	
1993-028B		22642	USSR	27 APR	01 MAY 93	
1993-029B		22644	USSR	28 APR	28 APR 93	
1993-033A		22663	USSR	21 MAY	20 JUN 93	
1993-033B	RESURS F-2	22664	USSR	21 MAY	24 MAY 93	
1993-033C		22681	USSR	21 MAY	22 JUN 93	
1993-033D		22682	USSR	21 MAY	22 JUN 93	
1993-033E		22685	USSR	21 MAY	25 JUN 93	
1993-033F		22686	USSR	21 MAY	23 JUN 93	
1993-034A	PROGRESS M-18	22666	USSR	22 MAY	04 JUL 93	
1993-034B		22667	USSR	22 MAY	25 MAY 93	
1993-035B		22672	USSR	26 MAY	16 JUN 93	
1993-035C		22673	USSR	26 MAY	06 JUN 93	
1993-037A	STS 57	22684	US	21 JUN	01 JUL 93	
1993-040A	RESURS F-18	22696	USSR	25 JUN	12 JUL 93	
1993-040B		22697	USSR	25 JUN	27 JUN 93	
1993-040C		22711	USSR	25 JUN	27 JUL 93	
1993-040D		22712	USSR	25 JUN	17 JUL 93	
1993-040E		22713	USSR	25 JUN	18 JUL 93	
1993-040F		22714	USSR	25 JUN	14 JUL 93	
1993-040G		22715	USSR	25 JUN	14 JUL 93	
1993-042B		22701	US	26 JUN	30 AUG 93	
1993-043B		22705	USSR	01 JUL	03 JUL 93	
1993-044B		22710	USSR	07 JUL	07 JUL 93	
1993-045A	COSMOS 2259	22716	USSR	14 JUL	25 JUL 93	
1993-045B		22717	USSR	14 JUL	19 JUL 93	
1993-047A	COSMOS 2260	22721	USSR	22 JUL	05 AUG 93	
1993-047B		22722	USSR	22 JUL	24 JUL 93	
1993-047C		22733	USSR	22 JUL	14 SEP 93	
1993-047D		22734	USSR	22 JUL	12 AUG 93	
1993-047E		22735	USSR	22 JUL	18 AUG 93	
1993-047F		22736	USSR	22 JUL	09 AUG 93	
1993-047G		22737	USSR	22 JUL	15 AUG 93	
1993-049B		22730	USSR	04 AUG	30 AUG 93	
1993-049C		22731	USSR	04 AUG	17 AUG 93	
1993-051B		22742	USSR	10 AUG	06 OCT 93	
1993-051C		22743	USSR	10 AUG	04 SEP 93	
1993-052A	PROGRESS M-19	22745	USSR	10 AUG	13 OCT 93	
1993-052B		22746	USSR	10 AUG	13 AUG 93	
1993-053A		22777	USSR	24 AUG	10 SEP 93	
1993-053B	RESURS F-19	22778	USSR	24 AUG	27 AUG 93	
1993-053C		22791	USSR	24 AUG	12 SEP 93	
1993-053D		22792	USSR	24 AUG	24 SEP 93	
1993-053E		22793	USSR	24 AUG	15 SEP 93	
1993-053F		22794	USSR	24 AUG	13 SEP 93	
1993-057A	COSMOS 2262	22789	USSR	07 SEP	18 DEC 93	

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1993-057B			22790	USSR	07 SEP	11 SEP 93	
1993-057C			22953	USSR	07 SEP	30 DEC 93	
1993-058A	STS 51		22795	US	12 SEP	22 SEP 93	
1993-058C	ORFEUS SPA		22798	FRG	12 SEP	22 SEP 93	
1993-058E			22799	US	12 SEP	16 SEP 93	
1993-060B			22800	US	12 SEP	16 SEP 93	
1993-062B			22809	USSR	17 SEP	17 SEP 93	
1993-062C			22837	USSR	30 SEP	30 OCT 93	
1993-063B			22838	USSR	30 SEP	01 OCT 93	
1993-063C			22860	PRC	08 OCT	22 OCT 93	
1993-063D			22861	PRC	08 OCT	12 OCT 93	
1993-063E			22862	PRC	08 OCT	11 OCT 93	
1993-063F			22863	PRC	08 OCT	11 OCT 93	
1993-063G			22864	PRC	08 OCT	10 OCT 93	
1993-063H			22865	PRC	08 OCT	09 OCT 93	
1993-064A	PROGRESS M 20		22870	PRC	08 OCT	28 OCT 93	
1993-064B			22867	USSR	11 OCT	21 NOV 93	
1993-065A	STS 58		22868	USSR	11 OCT	13 OCT 93	
1993-069B			22869	US	18 OCT	01 NOV 93	
1993-069C			22881	USSR	28 OCT	31 OCT 93	
1993-071B			22882	USSR	28 OCT	29 OCT 93	
1993-072B			22905	USSR	05 NOV	08 NOV 93	
1993-072C			22908	USSR	18 NOV	21 NOV 93	
1993-075A	STS-61		22909	USSR	18 NOV	19 NOV 93	
			22917	US	02 DEC	13 DEC 93	

# FOOTNOTES

- 1\* DEPLOYED FROM SPACE TRANSPORTATION VEHICLE.
- 2\* A MANNED SPACECRAFT WHICH SUCCESSFULLY LANDED ON THE MOON AND RETURNED TO SELENOCENTRIC ORBIT.
- 3\* 297 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 4\* 153 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1963-014A, 1963-014B, AND 1963-014C. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 5\* 29 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1964-006A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 6\* 51 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965-027A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 7\* 473 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965-082A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 8\* 43 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1967-001A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 9\* 111 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968-091A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 10\* 139 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968-097A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 11\* 270 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969-082A, 1969-082B, 1969-082C, 1969-082D, 1969-082E, 1969-082F, 1969-082G, 1969-082H, 1969-082J, AND 1969-082K. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 12\* 375 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970-025A AND 1970-025B. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 13\* 103 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970-089A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 14\* 46 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970-091A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.



# FOOTNOTES

- 15\* 120 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971-015A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 16\* 229 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1972-058A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 17\* 198 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973-086A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 18\* 152 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974-089A, 1974-089B, AND 1974-089C. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 19\* 208 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975-003A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 20\* 235 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975-052A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 21\* 72 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976-067A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 22\* 159 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976-077A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 23\* 79 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976-126A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 24\* 172 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977-065A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 25\* 70 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977-121A. THE OBJECT OF THIS SERIES THAT HAS DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 26\* 210 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1978-026A AND 1978-026B. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 27\* 402 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1978-100A, 1978-100B, AND 1978-100C. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 28\* 307 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1981-053A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY

# FOOTNOTES

SATELLITE SITUATION REPORT.

29\* 60 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982-055A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

30\* 35 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1983-075A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-YEAR SUMMARY SATELLITE SITUATION REPORT.

31\* 215 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1986-017A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-YEAR SUMMARY SATELLITE SITUATION REPORT.

32\* 499 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1986-019A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

33\* 112 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1987-020A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

34\* 40 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1989-089A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-YEAR SUMMARY SATELLITE SITUATION REPORT.

35\* 16 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1990-065A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

36\* 79 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1990-081A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

37\* 77 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1991-009A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

38\* 231 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1992-093A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-YEAR SUMMARY SATELLITE SITUATION REPORT.

39\* 31 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1993-016A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-YEAR SUMMARY SATELLITE SITUATION REPORT.

# DECAVED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1957 LAUNCHES						
ALPHA 1	SPUTNIK 1	1	USSR	04 OCT	01 DEC 57	
ALPHA 2	SPUTNIK 1	2	USSR	04 OCT	01 JAN 58	
BETA 1	SPUTNIK 2	3	USSR	03 NOV	14 APR 58	
1958 LAUNCHES						
ALPHA 1	EXPLORER 1	4	US	01 FEB	31 MAR 70	
DELTA 1	SPUTNIK 3	7	USSR	15 MAY	03 DEC 58	
DELTA 2	EXPLORER 4	8	USSR	15 MAY	06 APR 60	
EPSILON 1	PIONEER 1	9	US	26 JUL	23 OCT 59	
ETA 1	EXPLORER 3	110	US	11 OCT	12 OCT 58	
GAMMA 1	PIONEER 3	6	US	26 MAR	28 JUN 58	
THETA 1	PIONEER 3	111	US	06 DEC	07 DEC 58	
ZETA 1	SCORE	10	US	18 DEC	21 JAN 59	
1959 LAUNCHES						
ALPHA 3	DISCOVERER 1	5807	US	17 FEB	22 NOV 82	
BETA 1	EXPLORER 6	13	US	28 FEB	01 MAR 59	
DELTA 1		15	US	07 AUG	01 JUL 61	
DELTA 2		17	US	07 AUG	30 JUN 61	
EPSILON 1	DISCOVERER 5	18	US	13 AUG	28 SEP 59	
EPSILON 2	CAPSULE	26	US	13 AUG	11 FEB 61	
GAMMA 1	DISCOVERER 2	14	US	13 APR	26 APR 59	
IOIA 2		23	US	13 OCT	16 JUL 89	
KAPPA 1	DISCOVERER 7	24	US	07 NOV	26 NOV 59	
LAMBDA 1	DISCOVERER 8	25	US	20 NOV	08 MAR 60	
THETA 1	LUNA 3	21	USSR	04 OCT	29 APR 60	
XI 1	LUNA 2	114	USSR	12 SEP	15 SEP 59	
ZETA 1	DISCOVERER 6	19	US	19 AUG	20 OCT 59	A+
1960 LAUNCHES						
BETA 1		28	US	01 APR	02 JUL 91	
BETA 3		101	US	01 APR	17 APR 83	
DELTA 1	DISCOVERER 11	32	US	15 APR	26 APR 60	
EPSILON 1	SPUTNIK 4	34	USSR	15 MAY	05 SEP 62	
EPSILON 2		35	USSR	15 MAY	17 JUL 60	
EPSILON 3		36	USSR	15 MAY	15 OCT 65	
EPSILON 4		37	USSR	15 MAY	30 JUN 61	
EPSILON 5		38	USSR	15 MAY	01 OCT 60	
EPSILON 6		39	USSR	15 MAY	24 SEP 60	
EPSILON 7		40	USSR	15 MAY	24 SEP 60	
EPSILON 8		41	USSR	15 MAY	01 OCT 60	
EPSILON 9		42	USSR	15 MAY	01 OCT 60	
GAMMA 1		30	US	13 APR	18 AUG 60	
GAMMA 2	TRANSIT 1B	31	US	13 APR	05 OCT 67	
GAMMA 3		33	US	13 APR	01 JUL 60	
GAMMA 4		99	US	13 APR	17 JUL 79	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
IOTA 1	ECHO 1	49	US	12 AUG	24 MAY 68	
KAPPA 1	DISCOVERER 14	54	US	18 AUG	16 SEP 60	B*
KAPPA 1	CAPSULE	61003	US	18 AUG	19 AUG 60	B*
LAMBDA 1	SPUTNIK 5	55	USSR	19 AUG	20 AUG 60	C*
LAMBDA 2		56	USSR	19 AUG	23 SEP 60	
MU 1	DISCOVERER 15	57	US	13 SEP	18 OCT 60	
MU 1	CAPSULE	61004	US	13 SEP	15 SEP 60	D*
OMICRON 1	DISCOVERER 17	61	US	12 NOV	29 DEC 60	
OMICRON 1	CAPSULE	61005	US	12 NOV	14 NOV 60	
PI 2		64	US	23 NOV	23 SEP 81	
PI 3		74	US	23 NOV	10 MAY 89	
PI 4	SPUTNIK 6	75	US	23 NOV	25 JAN 90	
RHO 1		65	USSR	01 DEC	02 DEC 60	
RHO 2		66	USSR	01 DEC	02 DEC 60	
SIGMA 1	DISCOVERER 18	67	US	07 DEC	02 APR 61	B*
SIGMA 1	CAPSULE	61006	US	07 DEC	10 DEC 60	
TAU 1	DISCOVERER 19	68	US	20 DEC	23 JAN 61	
THETA 1	DISCOVERER 13	48	US	10 AUG	14 NOV 60	
THETA 1	CAPSULE	61002	US	10 AUG	11 AUG 60	B*
XI 2		62	US	03 NOV	27 OCT 85	
XI 3		69	US	03 NOV	16 FEB 70	
XI 4		105	US	03 NOV	03 MAR 72	
ZETA 1	MIDAS 2	43	US	24 MAY	07 FEB 74	
ZETA 2		44	US	24 MAY	05 DEC 60	

## 1961 LAUNCHES

A-ALPHA 1	MA 4	183	US	13 SEP	13 SEP 61	B*
A-ALPHA 2		184	US	13 SEP	13 SEP 61	
A-BETA 1	DISCOVERER 31	186	US	17 SEP	26 OCT 61	
A-DELTA 2		193	US	21 OCT	05 DEC 61	
A-EPHILON 1	DISCOVERER 34	197	US	05 NOV	07 DEC 62	
A-EPHILON 2		198	US	05 NOV	30 NOV 61	
A-EPHILON 3		199	US	05 NOV	09 DEC 61	
A-EPHILON 4		200	US	05 NOV	10 DEC 61	
A-EPHILON 5		203	US	05 NOV	12 DEC 61	
A-GAMMA 1	DISCOVERER 32	189	US	13 OCT	13 NOV 61	B*
A-GAMMA 1	CAPSULE	61011	US	13 OCT	14 OCT 61	B*
A-GAMMA 2		190	US	13 OCT	25 OCT 61	B*
A-GAMMA 3		191	US	13 OCT	16 OCT 61	
A-IOTA 1	MA 5	208	US	29 NOV	29 NOV 61	B*
A-IOTA 2		209	US	29 NOV	30 NOV 61	
A-KAPPA 1	DISCOVERER 36	213	US	12 DEC	08 MAR 62	
A-KAPPA 1	CAPSULE	61013	US	12 DEC	16 DEC 61	B*
A-KAPPA 2	OSCAR 1	214	US	12 DEC	31 JAN 62	
A-KAPPA 3		215	US	12 DEC	19 DEC 61	
A-LAMBDA 1		217	US	22 DEC	14 AUG 62	
A-LAMBDA 2		218	US	22 DEC	31 DEC 61	
A-LAMBDA 3		219	US	22 DEC	09 JAN 62	
A-THETA 1	RANGER 2	206	US	18 NOV	20 NOV 61	
A-ZETA 1	DISCOVERER 35	201	US	15 NOV	03 DEC 61	
A-ZETA 1	CAPSULE	61012	US	15 NOV	16 NOV 61	B*

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
A-ZETA 2		207	US	15 NOV	23 NOV 61	
ALPHA 1	SAMOS 2	70	US	31 JAN	21 OCT 73	
ALPHA 2		79	US	31 JAN	09 OCT 70	
BETA 1	SPUTNIK 7	71	USSR	04 FEB	26 FEB 61	
BETA 2		72	USSR	04 FEB	13 FEB 61	
BETA 3		73	USSR	04 FEB	17 MAR 61	
CHI 1	EXPLORER 13	180	US	25 AUG	28 AUG 61	
DELTA 1	EXPLORER 9	81	US	16 FEB	09 APR 64	
DELTA 4		86	US	16 FEB	30 JUN 61	
DELTA 5		3738	US	16 FEB	29 MAR 82	
DELTA 8		5237	US	16 FEB	20 JUL 74	
EPHILON 1	DISCOVERER 20	83	US	17 FEB	28 JUL 62	
EPHILON 2		88	US	17 FEB	02 APR 61	
EPHILON 3		89	US	17 FEB	20 APR 61	
EPHILON 4		90	US	17 FEB	31 OCT 61	
ETA 1	TRANSIT 3B & LOFT 1	87	US	22 FEB	30 MAR 61	
GAMMA 2		76	USSR	12 FEB	18 FEB 61	
GAMMA 3	SPUTNIK 8	77	USSR	12 FEB	25 FEB 61	
GAMMA 4		78	USSR	12 FEB	18 FEB 61	
IOTA 1	SPUTNIK 10	95	USSR	25 MAR	25 MAR 61	
IOTA 2		96	USSR	25 MAR	26 MAR 61	
IOTA 3		97	USSR	25 MAR	26 MAR 61	
KAPPA 1	EXPLORER 10	98	US	25 MAR	01 JUN 68	
LAMBDA 1	DISCOVERER 23	100	US	08 APR	16 APR 62	
LAMBDA 2	CAPSULE	102	US	08 APR	23 MAY 62	
LAMBDA 3		106	US	08 APR	10 SEP 61	
MU 1	VOSTOK 1	103	USSR	12 APR	12 APR 61	E *
MU 2		104	USSR	12 APR	16 APR 61	
OMEGA 1	DISCOVERER 30	182	US	12 SEP	11 DEC 61	
OMEGA 2	CAPSULE	61010	US	12 SEP	15 SEP 61	B *
OMEGA 3		185	US	12 SEP	18 SEP 61	
OMICRON 14		187	US	12 SEP	28 SEP 61	
OMICRON 22		129	US	29 JUN	31 AUG 81	
OMICRON 24		137	US	29 JUN	15 DEC 80	
OMICRON 25		139	US	29 JUN	08 JUL 78	
OMICRON 27		140	US	29 JUN	30 SEP 62	
OMICRON 28		142	US	29 JUN	25 DEC 67	
OMICRON 31		143	US	29 JUN	16 JUN 62	
OMICRON 34		146	US	29 JUN	07 JUL 69	
OMICRON 36		149	US	29 JUN	03 MAR 79	
OMICRON 38		151	US	29 JUN	02 DEC 67	
OMICRON 42		153	US	29 JUN	22 APR 81	
OMICRON 45		157	US	29 JUN	08 JAN 81	
OMICRON 46		161	US	29 JUN	29 AUG 81	
OMICRON 49		171	US	29 JUN	29 JAN 62	
OMICRON 55		176	US	29 JUN	12 FEB 82	
OMICRON 56		212	US	29 JUN	11 AUG 88	
OMICRON 57		216	US	29 JUN	13 NOV 89	
OMICRON 62		220	US	29 JUN	21 FEB 66	
OMICRON 67		231	US	29 JUN	13 FEB 65	
OMICRON 68		236	US	29 JUN	13 MAY 69	
		237	US	29 JUN	12 APR 69	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
OMICRON 69		238	US	29 JUN	07 DEC 69	
OMICRON 70		239	US	29 JUN	17 JUN 67	
OMICRON 75		250	US	29 JUN	13 SEP 81	
OMICRON 84		265	US	29 JUN	12 OCT 78	
OMICRON 88		300	US	29 JUN	15 DEC 79	
OMICRON 89		301	US	29 JUN	08 APR 81	
OMICRON 90		317	US	29 JUN	11 JAN 81	
OMICRON 92		319	US	29 JUN	23 JUL 81	
OMICRON 94		321	US	29 JUN	26 FEB 69	
OMICRON 95		322	US	29 JUN	06 JUN 69	
OMICRON 99		326	US	29 JUN	07 OCT 79	
OMICRON 99		328	US	29 JUN	03 MAY 70	
OMICRON 101		331	US	29 JUN	24 MAR 89	
OMICRON 104		332	US	29 JUN	20 SEP 70	
OMICRON 105		352	US	29 JUN	10 DEC 66	
OMICRON 113		356	US	29 JUN	02 FEB 81	
OMICRON 117		358	US	29 JUN	31 AUG 66	
OMICRON 119		359	US	29 JUN	31 AUG 65	
OMICRON 120		401	US	29 JUN	25 JAN 89	
OMICRON 121		401	US	29 JUN	20 JUN 78	
OMICRON 131		411	US	29 JUN	30 JUN 80	
OMICRON 132		412	US	29 JUN	02 DEC 89	
OMICRON 133		413	US	29 JUN	27 MAY 89	
OMICRON 135		415	US	29 JUN	05 NOV 91	
OMICRON 138		418	US	29 JUN	02 OCT 84	
OMICRON 141		421	US	29 JUN	18 DEC 89	
OMICRON 145		464	US	29 JUN	26 NOV 88	
OMICRON 147		466	US	29 JUN	03 DEC 81	
OMICRON 149		468	US	29 JUN	02 MAR 72	
OMICRON 154		473	US	29 JUN	18 JAN 82	
OMICRON 158		477	US	29 JUN	15 APR 71	
OMICRON 164		531	US	29 JUN	24 FEB 91	
OMICRON 167		539	US	29 JUN	20 AUG 91	
OMICRON 168		540	US	29 JUN	06 JUL 91	
OMICRON 170		542	US	29 JUN	20 NOV 89	
OMICRON 175		547	US	29 JUN	03 FEB 91	
OMICRON 178		550	US	29 JUN	16 FEB 90	
OMICRON 179		551	US	29 JUN	28 MAY 90	
OMICRON 181		556	US	29 JUN	14 FEB 67	
OMICRON 182		557	US	29 JUN	07 JUN 72	
OMICRON 190		646	US	29 JUN	27 MAY 82	
OMICRON 194		650	US	29 JUN	03 JUL 68	
OMICRON 198		654	US	29 JUN	03 JUL 68	
OMICRON 206		662	US	29 JUN	27 DEC 91	
OMICRON 208		1501	US	29 JUN	23 JAN 79	
OMICRON 211		2010	US	29 JUN	06 MAY 80	
OMICRON 212		2087	US	29 JUN	13 MAR 79	
OMICRON 213		3037	US	29 JUN	01 FEB 68	
OMICRON 218		3740	US	29 JUN	25 DEC 74	
OMICRON 224		3968	US	29 JUN	03 JUN 69	
OMICRON 225		3969	US	29 JUN	27 JUN 69	
OMICRON 230		4027	US	29 JUN	19 DEC 70	
OMICRON 234		5716	US	29 JUN	09 APR 82	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
OMICRON 237		5747	US	29 JUN	03 JAN 77	
OMICRON 242		5787	US	29 JUN	28 AUG 74	
OMICRON 247		5877	US	29 JUN	01 MAY 79	
OMICRON 248		5972	US	29 JUN	30 OCT 76	
OMICRON 249		5985	US	29 JUN	07 DEC 76	
OMICRON 250		6179	US	29 JUN	20 NOV 76	
OMICRON 251		6746	US	29 JUN	21 DEC 74	
OMICRON 256		9969	US	29 JUN	05 APR 78	
OMICRON 263		13941	US	29 JUN	21 SEP 88	
OMICRON 265		14499	US	29 JUN	06 MAY 89	
OMICRON 266		14500	US	29 JUN	07 DEC 87	
OMICRON 268		15339	US	29 JUN	12 AUG 87	
OMICRON 270		15760	US	29 JUN	11 AUG 90	
OMICRON 277		17653	US	29 JUN	29 DEC 89	
OMICRON 278		17711	US	29 JUN	01 AUG 88	
OMICRON 279		17712	US	29 JUN	15 JAN 90	
OMICRON 281		17714	US	29 JUN	21 NOV 89	
OMICRON 282		18498	US	29 JUN	30 JUN 89	
OMICRON 286		18890	US	29 JUN	26 JUN 89	
OMICRON 288		19031	US	29 JUN	08 MAR 90	
OMICRON 293		19428	US	29 JUN	19 MAY 90	
OMICRON 294		19430	US	29 JUN	30 AUG 61	
PHI 1	RANGER 1	173	US	23 AUG	03 SEP 61	
PHI 2		174	US	07 JUL	05 DEC 61	
PI 1	DISCOVERER 26	160	US	07 JUL	09 JUL 61	B*
PSI 1	CAPSULE	61008	US	30 AUG	10 SEP 61	
PSI 1	DISCOVERER 29	181	US	12 JUL	04 SEP 61	
RHO 3	CAPSULE	61009	US	12 JUL	19 JAN 92	
SIGMA 2		166	US	12 JUL	24 JUL 61	
SIGMA 5		164	*US	12 JUL	30 OCT 76	
TAU 1	VOSTOK 2	6215	US	06 AUG	07 AUG 61	E*
TAU 2		168	USSR	06 AUG	09 AUG 61	
THETA 1	SPUTNIK 9	169	USSR	09 MAR	09 MAR 61	C*
THETA 2		91	USSR	09 MAR	10 MAR 61	
THETA 3		92	USSR	09 MAR	10 MAR 61	
THETA 4		93	USSR	09 MAR	10 MAR 61	
UPSILON 1	EXPLORER 12	94	USSR	09 MAR	01 SEP 63	
XI 1	DISCOVERER 25	170	US	16 AUG	12 JUL 61	
XI 1	CAPSULE	108	US	16 JUN	18 JUN 61	B*
XI 2		61007	US	16 JUN	19 JUN 61	
ZETA 1	DISCOVERER 21	109	US	16 JUN	20 APR 62	
ZETA 1		84	US	18 FEB		
1962 LAUNCHES						
1962-059B		4924	US	27 OCT	22 DEC 83	14*
A ALPHA 2		311	US	19 JUN	28 NOV 90	
A ALPHA 4		313	US	19 JUN	02 MAR 92	
A OMICRON 2		370	US	23 AUG	02 MAR 80	
A OMICRON 3		378	US	23 AUG	12 AUG 92	
A PSI 2		398	US	18 SEP	10 JAN 83	
A PSI 4		400	US	18 SEP	05 APR 89	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
A-BETA 1		315	US	23 JUN	07 JUL 62	
A-CHI 1	ERS 2	396	US	17 SEP	16 NOV 62	
A-DELTA 1	COSMOS 6	338	USSR	30 JUN	08 AUG 62	
A-DELTA 2		339	USSR	30 JUN	08 SEP 62	
A-ETA 1		344	US	21 JUL	14 AUG 62	
A-GAMMA 1		316	US	28 JUN	14 SEP 62	
A-IOTA 1	COSMOS 7	346	USSR	28 JUL	01 AUG 62	
A-IOTA 2		347	USSR	28 JUL	21 AUG 62	
A-IOTA 3		348	USSR	28 JUL	31 JUL 62	
A-IOTA 4		349	USSR	28 JUL	30 JUL 62	
A-KAPPA 1		360	US	02 AUG	26 AUG 62	
A-KAPPA 2		362	US	02 AUG	08 AUG 62	
A-LAMBDA 1		361	US	05 AUG	06 AUG 62	
A-MU 1	VOSTOK 3	363	USSR	11 AUG	15 AUG 62	E *
A-MU 2		364	USSR	11 AUG	14 AUG 62	
A-NU 1	VOSTOK 4	365	USSR	12 AUG	15 AUG 62	E *
A-NU 2		366	USSR	12 AUG	14 AUG 62	
A-OMEGA 1		422	USSR	27 SEP	01 OCT 62	
A-OMEGA 2		423	USSR	27 SEP	22 DEC 62	
A-OMEGA 3		425	USSR	27 SEP	06 OCT 62	
A-OMEGA 4		428	USSR	27 SEP	08 OCT 62	
A-OMEGA 5		429	USSR	27 SEP	04 OCT 62	
A-OMEGA 6		430	USSR	27 SEP	08 OCT 62	
A-OMEGA 7		431	USSR	27 SEP	03 OCT 62	
A-OMEGA 8		435	USSR	27 SEP	06 OCT 62	
A-PHI 1		389	USSR	12 SEP	14 SEP 62	
A-PHI 2		390	USSR	12 SEP	12 SEP 62	
A-PHI 3		391	USSR	12 SEP	17 SEP 62	
A-PHI 4		392	USSR	12 SEP	13 SEP 62	
A-PHI 5		393	USSR	12 SEP	13 SEP 62	
A-PHI 6		394	USSR	12 SEP	16 SEP 62	
A-PHI 7		395	USSR	12 SEP	15 SEP 62	
A-PI 1		371	USSR	25 AUG	28 AUG 62	
A-PI 2		372	USSR	25 AUG	02 SEP 62	
A-PI 3		373	USSR	25 AUG	31 AUG 62	
A-PI 4		379	USSR	25 AUG	05 SEP 62	
A-PI 5		380	USSR	25 AUG	30 AUG 62	
A-PI 6		376	USSR	25 AUG	06 SEP 62	
A-PI 7		386	USSR	25 AUG	08 SEP 62	
A-PI 8		387	USSR	25 AUG	05 SEP 62	
A-SIGMA 1		377	US	29 AUG	10 SEP 62	
A-TAU 1		381	USSR	01 SEP	06 SEP 62	
A-TAU 2		382	USSR	01 SEP	03 SEP 62	
A-TAU 3		383	USSR	01 SEP	01 OCT 62	
A-TAU 4		384	USSR	01 SEP	21 SEP 62	
A-THETA 1		345	US	28 JUL	24 AUG 62	
A-UPSILON 1		385	US	01 SEP	26 OCT 64	
A-XI 1	COSMOS 8	367	USSR	18 AUG	17 AUG 63	
A-XI 2		368	USSR	18 AUG	19 AUG 63	
A-ZETA 1		342	US	18 JUL	25 JUL 62	
A-ZETA 2		343	US	18 JUL	27 JUL 62	
B GAMMA 1	EXPLORER 14	432	US	02 OCT	01 JUL 66	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
B GAMMA 2	EXPLORER 15	61000	US	02 OCT	02 DEC 62	
B LAMBDA 1		445	US	27 OCT	19 DEC 78	
B LAMBDA 2		61001	US	27 OCT	27 DEC 62	
B PSI 1	TRANSIT 5A	509	US	19 DEC	25 SEP 86	
B PSI 3		519	US	19 DEC	21 OCT 89	
B PSI 4		523	US	19 DEC	30 NOV 80	
B PSI 5		7258	US	19 DEC	19 JUL 77	
B-BETA 1		427	US	29 SEP	14 OCT 62	
B-DELTA 1	SIGMA 7	433	US	03 OCT	03 OCT 62	F *
B-DELTA 2		434	US	03 OCT	04 OCT 62	
B-EPSILON 1		436	US	09 OCT	16 NOV 62	
B-IOTA 1	SPUTNIK 29	443	USSR	24 OCT	29 OCT 62	
B-IOTA 10		485	USSR	24 OCT	10 DEC 62	
B-IOTA 11		486	USSR	24 OCT	30 NOV 62	
B-IOTA 12		487	USSR	24 OCT	01 DEC 62	
B-IOTA 13		491	USSR	24 OCT	25 DEC 62	
B-IOTA 14		492	USSR	24 OCT	15 DEC 62	
B-IOTA 15		493	USSR	24 OCT	21 DEC 62	
B-IOTA 16		494	USSR	24 OCT	17 DEC 62	
B-IOTA 17		495	USSR	24 OCT	26 DEC 62	
B-IOTA 18		496	USSR	24 OCT	23 DEC 62	
B-IOTA 19		497	USSR	24 OCT	26 DEC 62	
B-IOTA 2		456	USSR	24 OCT	02 DEC 62	H *
B-IOTA 20		498	USSR	24 OCT	10 DEC 62	
B-IOTA 21		499	USSR	24 OCT	09 DEC 62	
B-IOTA 22		500	USSR	24 OCT	28 DEC 62	
B-IOTA 23		501	USSR	24 OCT	26 DEC 62	
B-IOTA 24		512	USSR	24 OCT	31 DEC 62	
B-IOTA 3		457	USSR	24 OCT	26 FEB 63	
B-IOTA 4		458	USSR	24 OCT	29 NOV 62	
B-IOTA 5		459	USSR	24 OCT	24 DEC 62	
B-IOTA 6		460	USSR	24 OCT	08 DEC 62	
B-IOTA 7		482	USSR	24 OCT	10 DEC 62	
B-IOTA 8		483	USSR	24 OCT	02 JAN 63	
B-IOTA 9		484	USSR	24 OCT	04 DEC 62	
B-KAPPA 1		444	US	26 OCT	05 OCT 67	
B-NU 1		448	USSR	01 NOV	03 NOV 62	
B-NU 2		449	USSR	01 NOV	03 NOV 62	
B-OMEGA 1		517	USSR	22 DEC	30 DEC 62	
B-OMEGA 2		518	USSR	22 DEC	22 JAN 63	
B-OMICRON 1		453	US	05 NOV	03 DEC 62	
B-PHI 1		505	US	14 DEC	08 JAN 63	
B-PI 1		455	US	11 NOV	12 NOV 62	
B-PSI 2		514	US	19 DEC	22 APR 69	
B-RHO 1		481	US	24 NOV	13 DEC 62	
B-SIGMA 1		490	US	04 DEC	08 DEC 62	
B-TAU 1		502	US	13 DEC	09 FEB 67	
B-TAU 2	INUJUN 3	504	US	13 DEC	25 AUG 68	
B-TAU 3		507	US	13 DEC	01 JUL 63	
B-TAU 4		508	US	13 DEC	18 JAN 66	
B-TAU 5		513	US	13 DEC	05 FEB 67	
B-TAU 6		520	US	13 DEC	24 MAR 68	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
B-THETA 1		441	USSR	20 OCT	18 MAY 64	
B-THETA 2		442	USSR	20 OCT	05 JUN 63	
B-XI 1		451	USSR	04 NOV	05 NOV 62	
B-XI 2		452	USSR	04 NOV	08 NOV 62	
B-XI 3		454	USSR	04 NOV	19 JAN 63	
B-XI 4		488	USSR	04 NOV	25 DEC 62	
B-XI 5		489	USSR	04 NOV	27 DEC 62	
B-ZETA 1		437	USSR	17 OCT	21 OCT 62	
B-ZETA 2		438	USSR	17 OCT	05 NOV 62	
BLAMBDA 3		5992	US	27 OCT	01 DEC 78	
CHI 1		304	US	02 JUN	28 JUN 62	
CHI 2	OSCAR 2	305	US	02 JUN	21 JUN 62	
CHI 3		306	US	02 JUN	06 JUN 62	
DELTA 1		242	US	21 FEB	04 MAR 62	
EPSILON 1	DISCOVERER 38	247	US	27 FEB	21 MAR 62	
EPSILON 2		61014	US	27 FEB	03 MAR 62	B *
EPSILON 3		248	US	27 FEB	03 MAR 62	
EPSILON 4		249	US	27 FEB	03 MAR 62	
ETA 1		251	US	27 FEB	07 MAR 62	
ETA 2		256	US	27 FEB	07 MAR 62	
ETA 3		258	US	07 MAR	31 MAR 62	
GAMMA 1	FRIENDSHIP 7	259	US	07 MAR	03 NOV 62	
GAMMA 2		240	US	20 FEB	20 FEB 62	F *
IOTA 1		241	US	20 FEB	21 FEB 62	
IOTA 2	COSMOS 2	269	USSR	06 APR	20 AUG 63	
KAPPA 2		270	USSR	06 APR	06 OCT 62	
KAPPA 5		272	US	09 APR	04 MAY 62	
KAPPA 6		4494	US	09 APR	22 MAY 77	
LAMBDA 1		5703	US	09 APR	07 NOV 76	
LAMBDA 2		276	US	18 APR	28 MAY 62	
LAMBDA 3		277	US	18 APR	20 APR 62	
LAMBDA 4		278	US	18 APR	21 APR 62	
MU 1		279	US	18 APR	21 APR 62	
NU 1	RANGER 4	280	US	23 APR	26 APR 62	
NU 2	COSMOS 3	281	USSR	24 APR	17 OCT 62	G *
OMEGA 1		283	USSR	24 APR	05 AUG 62	
OMEGA 2		308	US	18 JUN	30 OCT 63	
OMEGA 3		310	US	18 JUN	12 JUL 62	
OMICRON 1	ARIEL 1	314	US	18 JUN	14 JUL 62	
OMICRON 2		285	UK	26 APR	24 MAY 76	
PHI 1		288	US	26 APR	28 APR 71	
PHI 2		302	US	30 MAY	11 JUN 62	
PI 1		303	US	30 MAY	02 JUN 62	
PSI 1		286	US	26 APR	28 APR 62	
RHO 1		307	US	17 JUN	18 JUN 62	
RHO 2		290	US	29 APR	26 MAY 62	
SIGMA 1		291	US	29 APR	01 MAY 62	
SIGMA 2		292	US	15 MAY	26 NOV 63	
SIGMA 3		293	US	15 MAY	03 JUL 62	
TAU 1	AURORA 7	294	US	15 MAY	13 JUL 62	
TAU 2		295	US	24 MAY	24 MAY 62	F *
		296	US	24 MAY	25 MAY 62	

INTER-  
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DESIGNATION

CATALOG  
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## LAUNCH

## NOTES

USR  
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US

25	MAY	62
18	JUN	62
02	MAY	63
15	DEC	62
29	APR	62
17	JUN	62
03	MAY	62
08	OCT	81
03	MAY	70

## SPUTNIK

EXPLORER 17  
COSMOS 14

[illegible]

17 OCT 87

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963-014BH		3243	US	09 MAY	17 OCT 87	
1963-014BK		3245	US	09 MAY	30 OCT 76	
1963-014BL		3246	US	09 MAY	17 OCT 87	
1963-014BM		3247	US	09 MAY	04 APR 77	
1963-014BN		3248	US	09 MAY	17 OCT 87	
1963-014BP		3249	US	09 MAY	28 SEP 80	
1963-014BQ		3250	US	09 MAY	18 JAN 90	
1963-014BR		3251	US	09 MAY	17 OCT 87	
1963-014BS		3252	US	09 MAY	30 MAY 73	
1963-014BT		3253	US	09 MAY	17 OCT 87	
1963-014BU		3254	US	09 MAY	02 NOV 69	
1963-014BV		3255	US	09 MAY	30 OCT 76	
1963-014BW		3256	US	09 MAY	12 APR 77	
1963-014BY		3258	US	09 MAY	08 AUG 69	
1963-014BZ		3259	US	09 MAY	30 OCT 76	
1963-014CA		3260	US	09 MAY	17 JUN 69	
1963-014CB		3261	US	09 MAY	17 OCT 87	
1963-014CC		3262	US	09 MAY	17 OCT 87	
1963-014CD		3263	US	09 MAY	17 OCT 87	
1963-014CE		3264	US	09 MAY	01 AUG 69	
1963-014CG		3268	US	09 MAY	14 DEC 90	
1963-014CH		3324	US	09 MAY	17 OCT 87	
1963-014CJ		3329	US	09 MAY	03 FEB 70	
1963-014CK		3330	US	09 MAY	17 OCT 87	
1963-014CL		3756	US	09 MAY	24 SEP 84	
1963-014CM		5035	US	09 MAY	17 OCT 87	
1963-014CN		5182	US	09 MAY	23 JAN 77	
1963-014CP		5500	US	09 MAY	03 JAN 77	
1963-014CQ		5503	US	09 MAY	23 JAN 75	
1963-014CR		5511	US	09 MAY	05 DEC 76	
1963-014CS		5512	US	09 MAY	19 FEB 75	
1963-014CT		5513	US	09 MAY	17 OCT 87	
1963-014CU		5702	US	09 MAY	26 APR 72	
1963-014CV		5916	US	09 MAY	21 SEP 85	
1963-014CW		5953	US	09 MAY	22 NOV 82	
1963-014CX		5954	US	09 MAY	20 AUG 74	
1963-014CZ		5993	US	09 MAY	17 OCT 87	
1963-014DB		5995	US	09 MAY	30 OCT 76	
1963-014DC		5996	US	09 MAY	21 NOV 73	
1963-014DD		5997	US	09 MAY	22 NOV 82	
1963-014DE		9694	US	09 MAY	17 OCT 87	
1963-014DF		11581	US	09 MAY	01 JAN 79	Q*
1963-014DG		2429	US	09 MAY	01 JAN 79	Q*
1963-014DH		2430	US	09 MAY	27 AUG 93	
1963-014DI		19032	US	09 MAY	28 MAR 89	
1963-014EF		19058	US	09 MAY	16 DEC 91	
1963-014ES		19880	US	09 MAY	11 OCT 93	
1963-014FE		20650	US	09 MAY	16 MAY 63	F*
1963-014FA	FAITH 7	576	US	15 MAY	16 MAY 63	
1963-015A		577	US	15 MAY	16 MAY 63	
1963-015B		578	US	18 MAY	27 MAY 63	
1963-016A		580	US	22 MAY	02 JUN 65	
1963-017A	COSMOS 17		USSR			

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963-017B	COSMOS 18	581	USSR	22 MAY	26 AUG 63	
1963-017C		582	USSR	22 MAY	12 MAY 65	
1963-017D		583	USSR	22 MAY	30 AUG 63	
1963-017E		584	USSR	22 MAY	25 JUL 63	
1963-017F		585	USSR	22 MAY	30 SEP 63	
1963-017G		588	USSR	22 MAY	02 APR 64	
1963-018A		586	USSR	24 MAY	02 JUN 63	
1963-018B		587	USSR	24 MAY	08 JUN 63	
1963-019A		590	US	12 JUN	11 JUL 63	
1963-020A		591	USSR	14 JUN	19 JUN 63	
1963-020B	VOSTOK 5	592	USSR	14 JUN	16 JUN 63	
1963-021A		593	US	15 JUN	07 AUG 63	
1963-021B		601	US	15 JUN	18 JUL 63	
1963-021C		599	US	15 JUN	01 AUG 63	
1963-021D		600	US	15 JUN	30 JUL 63	
1963-021E		598	US	15 JUN	27 JUL 63	
1963-021F		597	US	15 JUN	05 JUL 63	
1963-021G		617	US	15 JUN	03 JUL 63	
1963-022A		594	US	16 JUN	03 AUG 90	
1963-022C		610	US	16 JUN	15 NOV 91	
1963-022D	VOSTOK 6	611	US	16 JUN	01 MAR 71	
1963-023A		595	USSR	16 JUN	19 JUN 63	
1963-023B		596	USSR	16 JUN	18 JUN 63	
1963-024B		605	US	19 JUN	23 DEC 78	
1963-024C		606	US	19 JUN	09 JUN 88	
1963-024D		607	US	19 JUN	01 FEB 80	
1963-025A		609	US	27 JUN	26 JUL 63	
1963-026A		612	US	28 JUN	14 DEC 83	
1963-027A		613	US	29 JUN	26 OCT 69	
1963-027B		615	US	29 JUN	15 NOV 64	
1963-027C	RESEARCH SATELLITE	616	US	29 JUN	10 JUL 63	
1963-028A		618	US	12 JUL	18 JUL 63	
1963-028B		619	US	12 JUL	13 JUL 63	
1963-028C		620	US	12 JUL	16 JUL 63	
1963-029A		621	US	18 JUL	13 AUG 63	
1963-029B		623	US	18 JUL	29 JUL 63	
1963-030D		624	US	18 JUL	12 APR 71	
1963-031B		625	US	26 JUL	09 JUL 89	
1963-032A		626	US	31 JUL	11 AUG 63	
1963-032B		627	US	31 JUL	10 AUG 63	
1963-033A	COSMOS 19	632	USSR	06 AUG	30 MAR 64	
1963-033B		633	USSR	06 AUG	09 DEC 63	
1963-034A		636	US	24 AUG	12 SEP 63	
1963-034B		642	US	24 AUG	08 SEP 63	
1963-035A		637	US	29 AUG	07 NOV 63	
1963-035B		638	US	29 AUG	29 SEP 63	
1963-035C		639	US	29 AUG	02 SEP 63	
1963-035D		640	US	29 AUG	01 SEP 63	
1963-036A		641	US	06 SEP	13 SEP 63	
1963-036B		663	US	06 SEP	14 SEP 63	
1963-036C		664	US	06 SEP	10 SEP 63	
1963-036D		665	US	06 SEP	08 SEP 63	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECEASED OBJECTS							
1963-036E			666	US	06 SEP	11 SEP 63	
1963-036F			667	US	06 SEP	10 SEP 63	
1963-037A			668	US	24 SEP	12 OCT 63	
1963-038H			7259	US	28 SEP	06 NOV 82	
1963-039B	ERS 12		675	US	17 OCT	01 JUL 65	
1963-040A	COSMOS 20		673	USSR	18 OCT	26 OCT 63	
1963-040B			676	USSR	18 OCT	31 OCT 63	
1963-041A			677	US	25 OCT	29 OCT 63	
1963-041B			678	US	25 OCT	29 OCT 63	
1963-041C			679	US	25 OCT	29 OCT 63	
1963-041D			680	US	25 OCT	29 OCT 63	
1963-042A			681	US	29 OCT	21 JAN 64	
1963-042B			682	US	29 OCT	23 MAY 64	
1963-042C			691	US	29 OCT	27 NOV 63	
1963-043A	POLYOT 1		683	USSR	01 NOV	16 OCT 82	
1963-043B			684	USSR	01 NOV	23 NOV 66	
1963-043C			685	USSR	01 NOV	29 OCT 65	
1963-043D			686	USSR	01 NOV	18 DEC 66	
1963-044A	COSMOS 21		687	USSR	11 NOV	14 NOV 63	
1963-044B			688	USSR	11 NOV	12 NOV 63	
1963-045A	COSMOS 22		689	USSR	16 NOV	22 NOV 63	
1963-045B			690	USSR	16 NOV	03 DEC 63	
1963-046A	EXPLORER 18		693	US	27 NOV	30 DEC 63	
1963-047B			696	US	27 NOV	20 MAR 92	
1963-047C			697	US	27 NOV	24 JUN 89	
1963-047E			699	US	27 NOV	04 MAR 85	
1963-047J			1994	US	27 NOV	30 JUL 89	
1963-047M			3922	US	27 NOV	10 APR 91	
1963-047N			6004	US	27 NOV	17 FEB 80	
1963-047P			6158	US	27 NOV	22 NOV 73	
1963-047R			14529	US	27 NOV	15 OCT 91	
1963-047S			14841	US	27 NOV	22 JAN 90	
1963-047U			19110	US	27 NOV	26 FEB 90	
1963-048A			695	US	27 NOV	15 DEC 63	
1963-049J			2930	US	05 DEC	14 OCT 79	
1963-049K			4586	US	05 DEC	01 JUN 79	
1963-049L			6182	US	05 DEC	09 AUG 80	
1963-049M			6283	US	05 DEC	20 JUN 79	
1963-050A	COSMOS 23		707	USSR	13 DEC	27 MAR 64	
1963-050B			708	USSR	13 DEC	06 MAR 64	
1963-050C			709	USSR	13 DEC	03 JAN 64	
1963-050D			710	USSR	13 DEC	01 JAN 64	
1963-051A			711	US	18 DEC	20 DEC 63	
1963-052A	COSMOS 24		712	USSR	19 DEC	28 DEC 63	
1963-052B			713	USSR	19 DEC	25 JAN 64	
1963-053A	EXPLORER 19		714	US	19 DEC	10 MAY 81	
1963-053D			723	US	19 DEC	12 NOV 82	
1963-053F			725	US	19 DEC	23 DEC 74	
1963-054B			717	US	21 DEC	05 OCT 90	
1963-054D			736	US	21 DEC	25 NOV 81	
1963-055A			718	US	21 DEC	08 JAN 64	
1963-055B			719	US	21 DEC	07 NOV 64	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES							
1964-004A	ECHO 2		740	US	25 JAN	07 JUN 69	
1964-004E			749	US	25 JAN	23 FEB 66	
1964-005A	SATURN 5		744	US	29 JAN	30 APR 66	
1964-006E			14427	USSR	30 JAN	03 JAN 90	
1964-006G			14428	USSR	30 JAN	02 FEB 89	
1964-006H			15786	USSR	30 JAN	03 JAN 90	
1964-006K			16544	USSR	30 JAN	17 APR 90	
1964-006M			16548	USSR	30 JAN	02 FEB 89	
1964-006P			18686	USSR	30 JAN	03 JAN 90	
1964-006Q			18966	USSR	30 JAN	17 OCT 88	
1964-006R			19010	USSR	30 JAN	03 JAN 90	
1964-006V			19992	USSR	30 JAN	15 MAR 90	
1964-006AE			21621	USSR	30 JAN	06 AUG 91	
1964-007A	RANGER 6		747	US	30 JAN	02 FEB 64	
1964-008A			752	US	15 FEB	09 MAR 64	
1964-008B			755	US	15 FEB	21 FEB 64	
1964-009A			754	US	25 FEB	01 MAR 64	
1964-009B			756	US	25 FEB	26 FEB 64	
1964-010A	COSMOS 25		757	USSR	27 FEB	21 NOV 64	
1964-010B			758	USSR	27 FEB	18 JUN 64	
1964-010C			762	USSR	27 FEB	04 MAR 64	
1964-010D			763	USSR	27 FEB	23 APR 64	
1964-011A			759	US	28 FEB	19 FEB 69	
1964-011B			760	US	28 FEB	17 AUG 65	
1964-011C			761	US	28 FEB	21 SEP 65	
1964-011D			2663	US	28 FEB	01 MAR 67	
1964-012A			764	US	11 MAR	16 MAR 64	
1964-012B			765	US	11 MAR	12 MAY 64	
1964-013A	COSMOS 26		766	USSR	18 MAR	28 SEP 64	
1964-013B			767	USSR	18 MAR	17 MAY 64	
1964-013C			768	USSR	18 MAR	04 MAY 64	
1964-013D			769	USSR	18 MAR	25 MAR 64	
1964-014A	COSMOS 27		770	USSR	27 MAR	28 MAR 64	
1964-014B			772	USSR	27 MAR	29 MAR 64	
1964-014C			773	USSR	27 MAR	31 MAR 64	
1964-014D			774	USSR	27 MAR	04 APR 64	
1964-015A	ARIEL 2		771	UK	27 MAR	18 NOV 67	
1964-015B			775	US	27 MAR	13 APR 64	
1964-015C			847	US	27 MAR	06 MAY 68	
1964-016A	ZOND 1		776	USSR	02 APR	03 APR 64	
1964-016B			777	USSR	02 APR	02 APR 64	
1964-016C			778	USSR	02 APR	05 APR 64	
1964-017A	COSMOS 28		779	USSR	04 APR	12 APR 64	
1964-017B			780	USSR	04 APR	03 MAY 64	
1964-017C			781	USSR	04 APR	07 APR 64	
1964-018A	GEMINI 1		782	US	08 APR	12 APR 64	
1964-019A			783	USSR	12 APR	08 MAY 64	
1964-019B	POLYOT 2		784	USSR	12 APR	08 JUN 66	

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INTER- NATIONAL DESIGNATION	NAME	DECAVED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964-020A			786	US	23 APR	29 APR 64	
1964-020B			787	US	23 APR	26 APR 64	
1964-020C			788	US	23 APR	25 APR 64	
1964-020D			789	US	23 APR	25 APR 64	
1964-020E			790	US	23 APR	25 APR 64	
1964-021A	COSMOS 29		791	USSR	25 APR	02 MAY 64	
1964-021B			792	USSR	25 APR	11 MAY 64	
1964-021C			793	USSR	25 APR	27 APR 64	
1964-021D			794	USSR	25 APR	28 APR 64	
1964-021E			795	USSR	25 APR	27 APR 64	
1964-022A			796	US	27 APR	26 MAY 64	
1964-023A	COSMOS 30		797	USSR	18 MAY	26 MAY 64	
1964-023B			798	USSR	18 MAY	07 JUN 64	
1964-024A			799	US	19 MAY	22 MAY 64	
1964-025A	SATURN 6		800	US	28 MAY	01 JUN 64	
1964-026F			12142	US	04 JUN	25 OCT 81	
1964-026G			13360	US	04 JUN	11 JAN 88	
1964-027A			802	US	04 JUN	18 JUN 64	
1964-028A	COSMOS 31		803	USSR	06 JUN	20 OCT 64	
1964-028B			804	USSR	06 JUN	16 AUG 64	
1964-029A	COSMOS 32		807	USSR	10 JUN	18 JUN 64	
1964-029B			808	USSR	10 JUN	14 JUL 64	
1964-029C			810	USSR	10 JUN	12 JUN 64	
1964-030A			811	US	13 JUN	02 JUN 65	
1964-030B			820	US	13 JUN	07 AUG 64	
1964-032A			814	US	19 JUN	16 JUL 64	
1964-032B			821	US	19 JUN	02 JUL 64	
1964-033A	COSMOS 33		816	USSR	23 JUN	01 JUL 64	
1964-033B			817	USSR	23 JUN	10 JUL 64	
1964-033C			818	USSR	23 JUN	24 JUN 64	
1964-033D			819	USSR	23 JUN	24 JUN 64	
1964-034A	COSMOS 34		822	USSR	01 JUL	09 JUL 64	
1964-034B			823	USSR	01 JUL	15 JUL 64	
1964-035A			824	US	02 JUL	07 AUG 69	
1964-036A			825	US	06 JUL	08 JUL 64	
1964-036B			826	US	06 JUL	03 JAN 65	
1964-036C			827	US	06 JUL	19 JUL 64	
1964-037A			828	US	10 JUL	06 AUG 64	
1964-038B	ELEKTRON 4		830	USSR	10 JUL	12 OCT 83	
1964-038D			832	USSR	10 JUL	24 AUG 83	
1964-038E			5892	USSR	10 JUL	20 FEB 74	
1964-038F			5893	USSR	10 JUL	20 NOV 74	
1964-039A	COSMOS 35		833	USSR	15 JUL	23 JUL 64	
1964-039B			834	USSR	15 JUL	01 AUG 64	
1964-039C			835	USSR	15 JUL	31 JUL 64	
1964-039D			839	USSR	15 JUL	25 JUL 64	
1964-040C	ERS 13		838	US	17 JUL	01 JUL 66	
1964-041A	RANGER 7		842	US	28 JUL	31 JUL 64	
1964-042A	COSMOS 36		844	USSR	30 JUL	28 FEB 65	
1964-042B			845	USSR	30 JUL	29 NOV 64	
1964-043A			846	US	05 AUG	01 SEP 64	
1964-044A	COSMOS 37		848	USSR	14 AUG	22 AUG 64	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964-044B		849	USSR	14 AUG	03 SEP 64	
1964-045A		850	US	14 AUG	23 AUG 64	
1964-045B		851	US	14 AUG	08 MAR 79	
1964-045C		852	US	14 AUG	16 AUG 64	
1964-046A	COSMOS 38	853	USSR	18 AUG	08 NOV 64	
1964-046B	COSMOS 39	854	USSR	18 AUG	17 NOV 64	
1964-046C	COSMOS 40	855	USSR	18 AUG	18 NOV 64	
1964-046D		856	USSR	18 AUG	19 FEB 65	
1964-046E		857	USSR	18 AUG	10 SEP 64	
1964-046F		859	USSR	18 AUG	06 SEP 64	
1964-046G		860	USSR	18 AUG	06 SEP 64	
1964-048A		861	US	21 AUG	31 MAR 65	
1964-049A		863	USSR	22 AUG	15 SEP 64	
1964-049B		865	USSR	22 AUG	28 SEP 64	
1964-049C		868	USSR	22 AUG	30 AUG 64	
1964-050A	COSMOS 42	864	USSR	22 AUG	19 DEC 65	
1964-050B		866	USSR	22 AUG	02 AUG 65	
1964-050C	COSMOS 43	867	USSR	22 AUG	27 DEC 65	
1964-051C		873	US	25 AUG	18 APR 68	
1964-051D		874	US	25 AUG	17 JUN 68	
1964-051E		875	US	25 AUG	16 SEP 68	
1964-052A	NIMBUS 1	872	US	28 AUG	16 MAY 74	
1964-052B		878	US	28 AUG	13 AUG 74	
1964-055A	COSMOS 45	880	USSR	13 SEP	18 SEP 64	
1964-055B		881	USSR	13 SEP	27 SEP 64	
1964-056A		882	US	14 SEP	06 OCT 64	
1964-056B		883	US	14 SEP	22 SEP 64	
1964-057A	SATURN 7	884	US	23 SEP	28 SEP 64	
1964-058A		887	*US	23 SEP	26 SEP 64	
1964-058B		885	USSR	24 SEP	02 OCT 64	
1964-059A	COSMOS 46	886	USSR	24 SEP	07 OCT 64	
1964-059B	EXPLORER 21	889	US	04 OCT	30 JAN 66	
1964-060A		890	US	05 OCT	26 OCT 64	
1964-062A	COSMOS 47	891	USSR	06 OCT	07 OCT 64	
1964-062B		892	USSR	06 OCT	14 OCT 64	
1964-062C		894	USSR	06 OCT	09 OCT 64	
1964-062D		895	USSR	06 OCT	12 OCT 64	
1964-062E		896	USSR	06 OCT	09 OCT 64	
1964-065A	VOSKHOD 1	904	USSR	12 OCT	20 OCT 64	
1964-065B		905	USSR	12 OCT	13 OCT 64	
1964-065C		906	USSR	12 OCT	20 OCT 64	
1964-066A	COSMOS 48	908	USSR	14 OCT	20 OCT 64	
1964-066B		909	USSR	14 OCT	28 OCT 64	
1964-066C		910	USSR	14 OCT	16 OCT 64	
1964-067A		911	US	17 OCT	04 NOV 64	
1964-068A		912	US	23 OCT	28 OCT 64	
1964-068B		914	US	23 OCT	23 FEB 65	
1964-068C		916	US	23 OCT	04 NOV 64	
1964-068D		918	US	23 OCT	29 OCT 64	
1964-069A	COSMOS 49	913	USSR	24 OCT	21 AUG 65	
1964-069B		917	USSR	24 OCT	17 NOV 64	

# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964-069C		915	USSR	24 OCT	10 FEB 65	
1964-070A	COSMOS 50	919	USSR	28 OCT	05 NOV 64	
1964-070B		920	USSR	28 OCT	02 NOV 64	
1964-070C		928	USSR	28 OCT	13 NOV 64	
1964-070D		929	USSR	28 OCT	15 NOV 64	
1964-070E		989	USSR	28 OCT	13 NOV 64	
1964-070F		990	USSR	28 OCT	11 NOV 64	
1964-070G		991	USSR	28 OCT	08 NOV 64	
1964-070H		992	USSR	28 OCT	13 NOV 64	
1964-070J		993	USSR	28 OCT	12 NOV 64	
1964-070K		994	USSR	28 OCT	11 NOV 64	
1964-070L		995	USSR	28 OCT	12 NOV 64	
1964-070M		996	USSR	28 OCT	14 NOV 64	
1964-070N		997	USSR	28 OCT	10 NOV 64	
1964-070P		998	USSR	28 OCT	12 NOV 64	
1964-070Q		999	USSR	28 OCT	11 NOV 64	
1964-070R		1003	USSR	28 OCT	14 NOV 64	
1964-070S		1004	USSR	28 OCT	12 NOV 64	
1964-070T		1005	USSR	28 OCT	12 NOV 64	
1964-070U		1006	USSR	28 OCT	12 NOV 64	
1964-070V		1007	USSR	28 OCT	12 NOV 64	
1964-070W		1008	USSR	28 OCT	13 NOV 64	
1964-070X		1009	USSR	28 OCT	13 NOV 64	
1964-070Y		1010	USSR	28 OCT	09 NOV 64	
1964-070Z		1011	USSR	28 OCT	10 NOV 64	
1964-070AA		1012	USSR	28 OCT	09 NOV 64	
1964-070AB		1013	USSR	28 OCT	17 NOV 64	
1964-070AC		1014	USSR	28 OCT	12 NOV 64	
1964-070AD		1015	USSR	28 OCT	13 NOV 64	
1964-070AE		1016	USSR	28 OCT	11 NOV 64	
1964-070AF		1017	USSR	28 OCT	13 NOV 64	
1964-070AG		1018	USSR	28 OCT	11 NOV 64	
1964-070AH		1019	USSR	28 OCT	14 NOV 64	
1964-070AJ		1020	USSR	28 OCT	13 NOV 64	
1964-070AK		1021	USSR	28 OCT	12 NOV 64	
1964-070AL		1022	USSR	28 OCT	12 NOV 64	
1964-070AM		1023	USSR	28 OCT	14 NOV 64	
1964-070AN		1024	USSR	28 OCT	13 NOV 64	
1964-070AP		1025	USSR	28 OCT	12 NOV 64	
1964-070AQ		1026	USSR	28 OCT	12 NOV 64	
1964-070AR		1027	USSR	28 OCT	13 NOV 64	
1964-070AS		1028	USSR	28 OCT	12 NOV 64	
1964-070AT		1029	USSR	28 OCT	13 NOV 64	
1964-070AU		1030	USSR	28 OCT	13 NOV 64	
1964-070AV		1031	USSR	28 OCT	16 NOV 64	
1964-070AX		1032	USSR	28 OCT	10 NOV 64	
1964-070AY		1033	USSR	28 OCT	09 NOV 64	
1964-070AZ		1034	USSR	28 OCT	13 NOV 64	
1964-070BA		1035	USSR	28 OCT	12 NOV 64	
1964-070BB		1036	USSR	28 OCT	12 NOV 64	
1964-070BC		1037	USSR	28 OCT	12 NOV 64	
		1038	USSR	28 OCT	15 NOV 64	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964-070BD		1039	USSR	28 OCT	13 NOV 64	
1964-070BE		1040	USSR	28 OCT	13 NOV 64	
1964-070BF		1041	USSR	28 OCT	12 NOV 64	
1964-070BG		1042	USSR	28 OCT	13 NOV 64	
1964-070BH		1043	USSR	28 OCT	12 NOV 64	
1964-070BJ		1044	USSR	28 OCT	17 NOV 64	
1964-070BK		1045	USSR	28 OCT	17 NOV 64	
1964-070BL		1046	USSR	28 OCT	12 NOV 64	
1964-070BM		1047	USSR	28 OCT	11 NOV 64	
1964-070BN		1048	USSR	28 OCT	14 NOV 64	
1964-070BP		1049	USSR	28 OCT	15 NOV 64	
1964-070BQ		1050	USSR	28 OCT	14 NOV 64	
1964-070BR		1051	USSR	28 OCT	12 NOV 64	
1964-070BS		1052	USSR	28 OCT	13 NOV 64	
1964-070BT		1053	USSR	28 OCT	13 NOV 64	
1964-070BU		1054	USSR	28 OCT	11 NOV 64	
1964-070BV		1055	USSR	28 OCT	13 NOV 64	
1964-070BW		1056	USSR	28 OCT	13 NOV 64	
1964-070BX		1057	USSR	28 OCT	12 NOV 64	
1964-070BY		1058	USSR	28 OCT	13 NOV 64	
1964-070BZ		1059	USSR	28 OCT	11 NOV 64	
1964-070CA		1060	USSR	28 OCT	10 NOV 64	
1964-070CB		1061	USSR	28 OCT	09 NOV 64	
1964-070CC		1062	USSR	28 OCT	16 NOV 64	
1964-070CD		1063	USSR	28 OCT	11 NOV 64	
1964-070CE		1064	USSR	28 OCT	15 NOV 64	
1964-070CF		1065	USSR	28 OCT	17 NOV 64	
1964-070CG		1066	USSR	28 OCT	11 NOV 64	
1964-070CH		1067	USSR	28 OCT	17 NOV 64	
1964-070CJ		1068	USSR	28 OCT	14 NOV 64	
1964-070CK		1069	USSR	28 OCT	16 NOV 64	
1964-070CL		1070	USSR	28 OCT	13 NOV 64	
1964-070CM		1071	USSR	28 OCT	12 NOV 64	
1964-070CN		1072	USSR	28 OCT	10 NOV 64	
1964-070CP		1073	USSR	28 OCT	12 NOV 64	
1964-070CQ		1074	USSR	28 OCT	13 NOV 64	
1964-070CR		1075	USSR	28 OCT	13 NOV 64	
1964-070CS		1076	USSR	28 OCT	13 NOV 64	
1964-070CT		1077	USSR	28 OCT	14 NOV 64	
1964-070CU		1078	USSR	28 OCT	12 NOV 64	
1964-070CV		1079	USSR	28 OCT	12 NOV 64	
1964-070CW		1080	USSR	28 OCT	17 NOV 64	
1964-070CX		1081	USSR	28 OCT	11 NOV 64	
1964-070CY		1082	USSR	28 OCT	11 NOV 64	
1964-070CZ		1083	USSR	28 OCT	11 NOV 64	
1964-070DA		1084	USSR	28 OCT	11 NOV 64	
1964-071A		921	US	02 NOV	28 NOV 64	
1964-072A		922	US	04 NOV	05 NOV 69	
1964-072B		925	US	04 NOV	02 OCT 67	
1964-072C		926	US	04 NOV	30 JUN 66	
1964-072D		927	US	04 NOV	30 JUN 66	
1964-074A	EXPLORER 23	924	US	06 NOV	29 JUN 83	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964-074B	EXPLORER 24	3747	US	06 NOV	13 JUN 73	
1964-074C		4019	US	06 NOV	15 JUL 69	
1964-074D		6731	US	06 NOV	02 JAN 74	
1964-074E		6732	US	06 NOV	29 MAY 74	
1964-075A		930	US	18 NOV	06 DEC 64	
1964-076A		931	US	21 NOV	18 OCT 68	
1964-076D		934	US	21 NOV	02 OCT 82	
1964-076E		935	US	21 NOV	28 MAY 84	
1964-076F		936	US	21 NOV	03 APR 68	
1964-076G		937	US	21 NOV	19 APR 81	
1964-076H	COSMOS 51	939	US	21 NOV	30 APR 68	
1964-076J		941	US	21 NOV	22 FEB 79	
1964-076K		960	US	21 NOV	30 APR 89	
1964-076L		1411	US	21 NOV	05 MAR 68	
1964-076M		4079	US	21 NOV	21 OCT 71	
1964-076N		940	US	21 NOV	13 MAR 81	
1964-076N		943	USSR	30 NOV	01 DEC 64	
1964-078A		944	USSR	30 NOV	02 DEC 64	
1964-078B		946	US	04 DEC	05 DEC 64	
1964-079A		947	USSR	09 DEC	14 NOV 65	
1964-080A	CENTAUR 4	948	USSR	09 DEC	11 MAY 65	
1964-080B		950	USSR	09 DEC	29 DEC 64	
1964-080C		952	USSR	09 DEC	01 JAN 65	
1964-080D		954	USSR	09 DEC	02 JAN 65	
1964-080E		955	USSR	09 DEC	13 DEC 64	
1964-080F		949	US	10 DEC	12 DEC 64	
1964-081A		951	US	11 DEC	10 JUN 80	
1964-082A		966	US	13 DEC	07 JAN 82	
1964-083E		1528	US	13 DEC	24 SEP 80	
1964-083H	SAN MARCO 1	2798	US	13 DEC	18 JAN 79	
1964-083K		5444	US	13 DEC	20 FEB 79	
1964-083L		5540	US	13 DEC	13 SEP 65	
1964-083M		957	ITALY	15 DEC	07 FEB 65	
1964-084A		958	US	15 DEC	21 JAN 65	
1964-084B		962	US	15 DEC	14 JAN 65	
1964-084C		961	US	19 DEC	19 DEC 83	
1964-085A		4925	US	21 DEC	07 MAY 82	
1964-086B		4926	US	21 DEC	01 FEB 72	
1964-086C		5820	US	21 DEC	11 JAN 65	
1964-086D	COSMOS 52	964	US	21 DEC		
1964-087A						
1965-001A		968	USSR	11 JAN	19 JAN 65	
1965-001B		969	USSR	11 JAN	29 JAN 65	
1965-001C		970	USSR	11 JAN	13 JAN 65	
1965-001D		971	USSR	11 JAN	14 JAN 65	
1965-002A		972	US	15 JAN	09 FEB 65	
1965-002B		982	US	15 JAN	30 JAN 65	
1965-003A		973	US	19 JAN	13 JUL 79	
1965-003B		974	US	19 JAN	17 JUN 65	
1965-003C		975	US	19 JAN	09 JUL 65	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-005A		980	US	23 JAN	29 JAN 65	
1965-005B		981	US	23 JAN	25 JAN 65	
1965-006A	COSMOS 53	983	USSR	30 JAN	12 AUG 66	
1965-006B		984	USSR	30 JAN	11 JAN 66	
1965-006C		985	USSR	30 JAN	05 MAR 65	
1965-006D		986	USSR	30 JAN	04 MAR 65	
1965-007A	OSO 2	987	US	03 FEB	09 AUG 89	
1965-007B		988	US	03 FEB	11 SEP 77	
1965-009A	PEGASUS 1	1085	US	16 FEB	17 SEP 78	
1965-009B		1088	US	16 FEB	10 JUL 85	
1965-010A	RANGER 8	1086	US	17 FEB	20 FEB 65	G*
1965-011A	COSMOS 54	1089	USSR	21 FEB	15 SEP 68	
1965-011B	COSMOS 55	1090	USSR	21 FEB	02 FEB 68	
1965-011C	COSMOS 56	1091	USSR	21 FEB	02 NOV 67	
1965-011E		1092	USSR	21 FEB	23 DEC 69	
1965-012A		1094	USSR	21 FEB	08 APR 66	
1965-012B	COSMOS 57	1093	USSR	22 FEB	22 FEB 65	K*
1965-012C		1095	USSR	22 FEB	05 MAR 65	
1965-012D		1100	USSR	22 FEB	09 MAR 65	
1965-012E		1101	USSR	22 FEB	25 FEB 65	
1965-012F		1102	USSR	22 FEB	26 FEB 65	
1965-012G		1103	USSR	22 FEB	02 MAR 65	
1965-012H		1104	USSR	22 FEB	10 MAR 65	
1965-012I		1105	USSR	22 FEB	25 FEB 65	
1965-012J		1106	USSR	22 FEB	02 MAR 65	
1965-012L		1107	USSR	22 FEB	25 MAR 65	
1965-012M		1108	USSR	22 FEB	01 MAR 65	
1965-012N		1109	USSR	22 FEB	26 FEB 65	
1965-012P		1110	USSR	22 FEB	27 FEB 65	
1965-012Q		1111	USSR	22 FEB	02 MAR 65	
1965-012R		1112	USSR	22 FEB	01 MAR 65	
1965-012S		1113	USSR	22 FEB	25 FEB 65	
1965-012T		1114	USSR	22 FEB	03 MAR 65	
1965-012U		1115	USSR	22 FEB	27 FEB 65	
1965-012V		1116	USSR	22 FEB	04 MAR 65	
1965-012W		1117	USSR	22 FEB	02 MAR 65	
1965-012X		1118	USSR	22 FEB	02 MAR 65	
1965-012Y		1119	USSR	22 FEB	01 MAR 65	
1965-012Z		1120	USSR	22 FEB	01 MAR 65	
1965-012AA		1121	USSR	22 FEB	02 MAR 65	
1965-012AB		1122	USSR	22 FEB	01 MAR 65	
1965-012AC		1123	USSR	22 FEB	27 FEB 65	
1965-012AD		1124	USSR	22 FEB	02 MAR 65	
1965-012AE		1125	USSR	22 FEB	02 MAR 65	
1965-012AF		1126	USSR	22 FEB	01 MAR 65	
1965-012AG		1127	USSR	22 FEB	28 FEB 65	
1965-012AH		1128	USSR	22 FEB	05 MAR 65	
1965-012AJ		1129	USSR	22 FEB	05 MAR 65	
1965-012AK		1130	USSR	22 FEB	11 MAR 65	
1965-012AL		1131	USSR	22 FEB	07 MAR 65	
1965-012AM		1132	USSR	22 FEB	07 MAR 65	
		1133	USSR	22 FEB	21 MAR 65	

# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-012AN		1134	USSR	22 FEB	19 MAR 65	
1965-012AP		1135	USSR	22 FEB	13 MAR 65	
1965-012AQ		1136	USSR	22 FEB	17 MAR 65	
1965-012AR		1137	USSR	22 FEB	09 MAR 65	
1965-012AS		1138	USSR	22 FEB	08 MAR 65	
1965-012AT		1139	USSR	22 FEB	10 MAR 65	
1965-012AU		1140	USSR	22 FEB	25 MAR 65	
1965-012AV		1141	USSR	22 FEB	10 MAR 65	
1965-012AW		1142	USSR	22 FEB	14 MAR 65	
1965-012AX		1143	USSR	22 FEB	20 MAR 65	
1965-012AY		1144	USSR	22 FEB	21 MAR 65	
1965-012AZ		1145	USSR	22 FEB	21 MAR 65	
1965-012BA		1146	USSR	22 FEB	17 MAR 65	
1965-012BB		1147	USSR	22 FEB	16 MAR 65	
1965-012BC		1148	USSR	22 FEB	11 MAR 65	
1965-012BD		1149	USSR	22 FEB	19 MAR 65	
1965-012BE		1150	USSR	22 FEB	17 MAR 65	
1965-012BF		1151	USSR	22 FEB	10 MAR 65	
1965-012BG		1152	USSR	22 FEB	16 MAR 65	
1965-012BH		1153	USSR	22 FEB	07 MAR 65	
1965-012BJ		1154	USSR	22 FEB	07 MAR 65	
1965-012BK		1155	USSR	22 FEB	07 MAR 65	
1965-012BL		1156	USSR	22 FEB	18 MAR 65	
1965-012BM		1157	USSR	22 FEB	13 MAR 65	
1965-012BN		1158	USSR	22 FEB	04 MAR 65	
1965-012BP		1159	USSR	22 FEB	18 MAR 65	
1965-012BQ		1160	USSR	22 FEB	04 MAR 65	
1965-012BR		1161	USSR	22 FEB	05 MAR 65	
1965-012BS		1162	USSR	22 FEB	25 MAR 65	
1965-012BT		1163	USSR	22 FEB	05 MAR 65	
1965-012BU		1164	USSR	22 FEB	13 MAR 65	
1965-012BV		1165	USSR	22 FEB	09 MAR 65	
1965-012BW		1166	USSR	22 FEB	07 MAR 65	
1965-012BX		1167	USSR	22 FEB	20 MAR 65	
1965-012BY		1168	USSR	22 FEB	06 MAR 65	
1965-012BZ		1169	USSR	22 FEB	05 MAR 65	
1965-012CA		1170	USSR	22 FEB	04 MAR 65	
1965-012CB		1171	USSR	22 FEB	05 MAR 65	
1965-012CC		1172	USSR	22 FEB	05 MAR 65	
1965-012CD		1173	USSR	22 FEB	04 MAR 65	
1965-012CE		1174	USSR	22 FEB	22 MAR 65	
1965-012CF		1175	USSR	22 FEB	05 MAR 65	
1965-012CG		1176	USSR	22 FEB	05 MAR 65	
1965-012CH		1177	USSR	22 FEB	27 MAR 65	
1965-012CJ		1178	USSR	22 FEB	05 MAR 65	
1965-012CK		1179	USSR	22 FEB	16 MAR 65	
1965-012CL		1180	USSR	22 FEB	04 MAR 65	
1965-012CM		1181	USSR	22 FEB	06 MAR 65	
1965-012CN		1182	USSR	22 FEB	07 MAR 65	
1965-012CP		1183	USSR	22 FEB	08 MAR 65	
1965-012CQ		1184	USSR	22 FEB	07 MAR 65	
1965-012CR		1185	USSR	22 FEB	11 MAR 65	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-012CS		1186	USSR	22 FEB	01 MAR 65	
1965-012CT		1187	USSR	22 FEB	01 MAR 65	
1965-012CU		1188	USSR	22 FEB	01 MAR 65	
1965-012CV		1189	USSR	22 FEB	01 MAR 65	
1965-012CW		1190	USSR	22 FEB	01 MAR 65	
1965-012CX		1194	USSR	22 FEB	16 MAR 65	
1965-012CY		1195	USSR	22 FEB	09 MAR 65	
1965-012CZ		1196	USSR	22 FEB	09 MAR 65	
1965-012DA		1197	USSR	22 FEB	21 MAR 65	
1965-012DB		1198	USSR	22 FEB	04 MAR 65	
1965-012DC		1199	USSR	22 FEB	17 MAR 65	
1965-012DD		1200	USSR	22 FEB	11 MAR 65	
1965-012DE		1201	USSR	22 FEB	04 MAR 65	
1965-012DF		1202	USSR	22 FEB	09 MAR 65	
1965-012DG		1203	USSR	22 FEB	14 MAR 65	
1965-012DH		1204	USSR	22 FEB	15 MAR 65	
1965-012DJ		1205	USSR	22 FEB	16 MAR 65	
1965-012DK		1206	USSR	22 FEB	09 MAR 65	
1965-012DL		1209	USSR	22 FEB	11 MAR 65	
1965-012DM		1210	USSR	22 FEB	04 MAR 65	
1965-012DN		1211	USSR	22 FEB	16 MAR 65	
1965-012DP		1212	USSR	22 FEB	12 MAR 65	
1965-012DQ		1213	USSR	22 FEB	14 MAR 65	
1965-012DR		1214	USSR	22 FEB	20 MAR 65	
1965-012DS		1215	USSR	22 FEB	16 MAR 65	
1965-012DT		1216	USSR	22 FEB	17 MAR 65	
1965-012DU		1217	USSR	22 FEB	28 MAR 65	
1965-012DV		1218	USSR	22 FEB	20 MAR 65	
1965-012DW		1219	USSR	22 FEB	14 MAR 65	
1965-012DX		1220	USSR	22 FEB	12 MAR 65	
1965-012DY		1221	USSR	22 FEB	18 MAR 65	
1965-012DZ		1222	USSR	22 FEB	12 MAR 65	
1965-012EA		1223	USSR	22 FEB	31 MAR 65	
1965-012EB		1224	USSR	22 FEB	16 MAR 65	
1965-012EC		1225	USSR	22 FEB	14 MAR 65	
1965-012ED		1226	USSR	22 FEB	18 MAR 65	
1965-012EE		1227	USSR	22 FEB	11 MAR 65	
1965-012EF		1229	USSR	22 FEB	29 MAR 65	
1965-012EG		1230	USSR	22 FEB	13 MAR 65	
1965-012EH		1231	USSR	22 FEB	17 MAR 65	
1965-012EJ		1232	USSR	22 FEB	20 MAR 65	
1965-012EK		1233	USSR	22 FEB	24 MAR 65	
1965-012EL		1234	USSR	22 FEB	20 MAR 65	
1965-012EM		1235	USSR	22 FEB	17 MAR 65	
1965-012EN		1236	USSR	22 FEB	17 MAR 65	
1965-012EP		1237	USSR	22 FEB	20 MAR 65	
1965-012EQ		1238	USSR	22 FEB	29 MAR 65	
1965-012ER		1239	USSR	22 FEB	17 MAR 65	
1965-012ES		1240	USSR	22 FEB	17 MAR 65	
1965-012ET		1241	USSR	22 FEB	24 MAR 65	
1965-012EU		1242	USSR	22 FEB	17 MAR 65	
1965-012EV		1243	USSR	22 FEB	17 MAR 65	

INTER - NATIONAL DESIGNATION		DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-012EW			1254	USSR	23 FEB	12 MAR 65	
1965-012EX			1255	USSR	23 FEB	20 MAR 65	
1965-012EY			1256	USSR	23 FEB	21 MAR 65	
1965-012EZ			1257	USSR	23 FEB	21 MAR 65	
1965-012FA			1258	USSR	23 FEB	17 MAR 65	
1965-012FB			1261	USSR	23 FEB	06 APR 65	
1965-012FC			1262	USSR	23 FEB	15 MAR 65	
1965-012FD			1263	USSR	23 FEB	21 MAR 65	
1965-012FE			1264	USSR	23 FEB	26 MAR 65	
1965-012FF			1265	USSR	23 FEB	15 MAR 65	
1965-012FG			1266	USSR	23 FEB	06 MAR 65	
1965-012FH			1275	USSR	23 FEB	21 MAR 65	
1965-012FI			1276	USSR	23 FEB	20 MAR 65	
1965-012FJ			1277	USSR	23 FEB	20 MAR 65	
1965-012FK			1278	USSR	23 FEB	22 MAR 65	
1965-012FL			1279	USSR	23 FEB	31 MAR 65	
1965-012FM			1280	USSR	23 FEB	24 MAR 65	
1965-012FN			1281	USSR	23 FEB	19 MAR 65	
1965-012FP			1282	USSR	23 FEB	21 MAR 65	
1965-012FQ			1283	USSR	23 FEB	23 MAR 65	
1965-012FR			1284	USSR	23 FEB	19 MAR 65	
1965-012FS			1295	USSR	23 FEB	20 MAR 65	
1965-012FT			1296	USSR	23 FEB	15 MAR 65	
1965-012FV			1297	USSR	23 FEB	22 MAR 65	
1965-012FW			1299	USSR	23 FEB	20 MAR 65	
1965-012FX			1300	USSR	23 FEB	23 MAR 65	
1965-012FY			1304	USSR	23 FEB	28 MAR 65	
1965-012FZ			1309	USSR	23 FEB	28 MAR 65	
1965-013A			1096	US	25 FEB	18 MAR 65	
1965-013B			1193	US	25 FEB	10 MAR 65	
1965-014A		COSMOS 58	1097	USSR	26 FEB	25 FEB 90	
1965-014B			1098	USSR	26 FEB	25 JUL 88	
1965-015A		COSMOS 59	1191	USSR	07 MAR	15 MAR 65	
1965-015B			1192	USSR	07 MAR	19 MAR 65	
1965-015C			1207	USSR	07 MAR	10 MAR 65	
1965-016G			1310	US	09 MAR	27 MAR 81	
1965-017A		SURCAL	1303	US	11 MAR	14 JUN 65	
1965-017B		NNSS 30030	1250	US	11 MAR	26 FEB 68	
1965-017C		SECDR (EGRS) 2	1228	US	11 MAR	04 SEP 67	
1965-017D			1248	US	11 MAR	29 JUL 67	
1965-017E			1251	US	11 MAR	01 AUG 65	
1965-017F			1249	US	11 MAR	10 SEP 65	
1965-017G			1319	US	11 MAR	28 JUN 65	
1965-017H			1323	US	11 MAR	23 DEC 65	
1965-018A			1246	USSR	12 MAR	17 MAR 65	
1965-018B		COSMOS 60	1252	USSR	12 MAR	17 MAR 65	
1965-018C			1253	USSR	12 MAR	15 MAR 65	
1965-019A			1247	US	12 MAR	17 MAR 65	
1965-019B			1259	US	12 MAR	16 MAR 65	
1965-019C			1260	US	12 MAR	21 MAR 65	
1965-020A		COSMOS 61	1267	USSR	15 MAR	15 JAN 68	
1965-020B		COSMOS 62	1268	USSR	15 MAR	24 SEP 68	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-020C	COSMOS 63	1269	USSR	15 MAR	04 NOV 67	
1965-020D		1270	USSR	15 MAR	05 AUG 66	
1965-020F		1336	USSR	15 MAR	24 JUL 68	L *
1965-020G		1337	USSR	15 MAR	29 SEP 66	
1965-020H		1338	USSR	15 MAR	30 APR 67	
1965-020J		1339	USSR	15 MAR	14 OCT 69	
1965-020K		1340	USSR	15 MAR	30 MAY 68	
1965-020L		1341	USSR	15 MAR	13 FEB 69	
1965-020M		1342	USSR	15 MAR	09 SEP 69	
1965-020N		1343	USSR	15 MAR	20 DEC 66	
1965-020P		1344	USSR	15 MAR	14 NOV 69	
1965-020Q		1345	USSR	15 MAR	26 NOV 88	
1965-020R		1346	USSR	15 MAR	18 MAY 75	
1965-020T		1348	USSR	15 MAR	15 NOV 81	
1965-020U		1349	USSR	15 MAR	09 APR 79	
1965-020V		1350	USSR	15 MAR	19 DEC 65	
1965-020W		1351	USSR	15 MAR	06 AUG 72	
1965-020X		1352	USSR	15 MAR	03 JUL 67	
1965-020Y		1353	USSR	15 MAR	30 JAN 66	
1965-020Z		1354	USSR	15 MAR	15 MAY 68	
1965-020AA		1355	USSR	15 MAR	09 OCT 66	
1965-020AB		1356	USSR	15 MAR	14 AUG 65	
1965-020AD		1371	USSR	15 MAR	26 SEP 80	
1965-020AE		1372	USSR	15 MAR	24 JUN 89	
1965-020AF		1373	USSR	15 MAR	04 FEB 79	
1965-020AG		1375	USSR	15 MAR	14 OCT 65	
1965-020AJ		1397	USSR	15 MAR	06 APR 68	
1965-020AK		1398	USSR	15 MAR	25 JUN 70	
1965-020AL		1400	USSR	15 MAR	05 OCT 65	
1965-020AM		1401	USSR	15 MAR	20 MAR 66	
1965-020AN		1402	USSR	15 MAR	05 MAY 67	
1965-020AP		1403	USSR	15 MAR	03 DEC 65	
1965-020AQ		1409	USSR	15 MAR	19 MAY 66	
1965-020AR		1410	USSR	15 MAR	17 FEB 67	
1965-020AS		1416	USSR	15 MAR	05 MAY 67	
1965-020AT		1417	USSR	15 MAR	09 SEP 65	
1965-020AU		1418	USSR	15 MAR	10 AUG 65	
1965-020AV		1419	USSR	15 MAR	01 SEP 66	
1965-020AW		1436	USSR	15 MAR	20 MAY 65	
1965-020AX		1437	USSR	15 MAR	28 OCT 65	
1965-020AY		1438	USSR	15 MAR	03 NOV 80	
1965-020AZ		1439	USSR	15 MAR	16 JAN 79	
1965-020BA		1476	USSR	15 MAR	21 SEP 67	
1965-020BF		1481	USSR	15 MAR	23 MAY 79	
1965-020BG		1482	USSR	15 MAR	09 JAN 66	
1965-020BH		1483	USSR	15 MAR	27 FEB 68	
1965-020BJ		1484	USSR	15 MAR	24 OCT 68	
1965-020BK		1485	USSR	15 MAR	15 APR 68	
1965-020BL		1486	USSR	15 MAR	10 JUN 67	
1965-020BM		1487	USSR	15 MAR	18 APR 67	
1965-020BN		1488	USSR	15 MAR	14 NOV 67	
1965-020BP		1489	USSR	15 MAR	26 OCT 66	

INTER- NATIONAL DESIGNATION	DECEASED OBJECTS  NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-020BQ		1490	USSR	15 MAR	03 JAN 66	
1965-020BR		1491	USSR	15 MAR	10 SEP 68	
1965-020BS		1492	USSR	15 MAR	23 NOV 65	
1965-020BT		1493	USSR	15 MAR	04 NOV 66	
1965-020BU		1494	USSR	15 MAR	04 SEP 65	
1965-020BW		1496	USSR	15 MAR	15 SEP 66	
1965-020BX		1497	USSR	15 MAR	28 MAY 67	
1965-020BY		1498	USSR	15 MAR	06 MAY 66	
1965-020BZ		1499	USSR	15 MAR	07 SEP 66	
1965-020CA		1530	USSR	15 MAR	04 JUL 69	
1965-020CB		1531	USSR	15 MAR	05 MAR 67	
1965-020CC		1532	USSR	15 MAR	11 JAN 66	
1965-020CD		1533	USSR	15 MAR	27 DEC 65	
1965-020CE		1534	USSR	15 MAR	05 MAY 71	
1965-020CF		1535	USSR	15 MAR	14 DEC 65	
1965-020CG		1536	USSR	15 MAR	26 APR 66	
1965-020CH		1537	USSR	15 MAR	17 AUG 66	
1965-020CJ		1538	USSR	15 MAR	03 DEC 74	
1965-020CK		1539	USSR	15 MAR	26 SEP 66	
1965-020CL		1540	USSR	15 MAR	27 FEB 68	
1965-020CM		1541	USSR	15 MAR	20 MAR 66	
1965-020CN		1542	USSR	15 MAR	31 JUL 66	
1965-020CP		1543	USSR	15 MAR	19 SEP 68	
1965-020CQ		1544	USSR	15 MAR	22 FEB 67	
1965-020CR		1545	USSR	15 MAR	24 JAN 66	
1965-020CS		1546	USSR	15 MAR	16 AUG 66	
1965-020CT		1547	USSR	15 MAR	24 JUL 66	
1965-020CU		1548	USSR	15 MAR	27 MAY 78	
1965-020CW		1550	USSR	15 MAR	08 JUL 70	
1965-020CX		1551	USSR	15 MAR	19 DEC 69	
1965-020CY		1552	USSR	15 MAR	20 MAR 67	
1965-020CZ		1553	USSR	15 MAR	23 JUL 66	
1965-020DA		1554	USSR	15 MAR	06 JAN 67	
1965-020DB		1555	USSR	15 MAR	12 FEB 68	
1965-020DC		1556	USSR	15 MAR	02 MAY 67	
1965-020DD		1557	USSR	15 MAR	12 FEB 67	
1965-020DE		1558	USSR	15 MAR	12 JUN 68	
1965-020DF		1559	USSR	15 MAR	18 APR 67	
1965-020DG		1560	USSR	15 MAR	13 OCT 65	
1965-020DH		1561	USSR	15 MAR	12 APR 67	
1965-020DJ		1562	USSR	15 MAR	22 FEB 66	
1965-020DK		1563	USSR	15 MAR	28 OCT 69	
1965-020DL		1564	USSR	15 MAR	10 SEP 81	
1965-020DM		1565	USSR	15 MAR	02 FEB 67	
1965-020DN		1566	USSR	15 MAR	08 DEC 79	
1965-020DP		1567	USSR	15 MAR	12 SEP 74	
1965-020DQ		1568	USSR	15 MAR	01 MAY 66	
1965-020DR		1569	USSR	15 MAR	18 JUL 66	
1965-020DS		1592	USSR	15 MAR	27 OCT 70	
1965-020DT		1593	USSR	15 MAR	28 SEP 70	
1965-020DU		1594	USSR	15 MAR	19 DEC 66	
1965-020DV		1595	USSR	15 MAR	06 APR 72	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-020DW		1596	USSR	15 MAR	29 OCT 67	
1965-020DX		1597	USSR	15 MAR	28 DEC 88	
1965-020DY		1598	USSR	15 MAR	12 APR 76	
1965-020DZ		1599	USSR	15 MAR	16 JAN 71	
1965-020EA		1600	USSR	15 MAR	10 MAR 78	
1965-020EB		1601	USSR	15 MAR	17 JAN 67	
1965-020EC		1633	USSR	15 MAR	31 JAN 81	
1965-020EE		1635	USSR	15 MAR	20 OCT 67	
1965-020EF		2203	USSR	15 MAR	20 APR 67	
1965-020EG		2204	USSR	15 MAR	17 OCT 66	
1965-020EJ		2339	USSR	15 MAR	12 NOV 66	
1965-020EK		2387	USSR	15 MAR	19 OCT 66	
1965-020EL		2637	USSR	15 MAR	19 FEB 67	
1965-020EP		3163	USSR	15 MAR	16 JUL 68	
1965-020EQ		3707	USSR	15 MAR	13 OCT 79	
1965-020EW		3963	USSR	15 MAR	09 JUL 91	
1965-020EX		3964	USSR	15 MAR	29 OCT 80	
1965-020EZ		4016	USSR	15 MAR	13 APR 81	
1965-020FA		5733	USSR	15 MAR	11 MAR 72	
1965-020FB		5813	USSR	15 MAR	13 FEB 81	
1965-020FC		5983	USSR	15 MAR	09 AUG 72	
1965-020FE		6736	USSR	15 MAR	12 JUL 80	
1965-021A		1273	US	18 MAR	31 DEC 89	
1965-021B		1288	US	18 MAR	05 OCT 65	
1965-021C		1289	US	18 MAR	06 SEP 79	
1965-021D		1290	US	18 MAR	01 OCT 65	
1965-021E		1376	US	18 MAR	01 JAN 70	
1965-021F		1463	US	18 MAR	18 MAY 79	
1965-022A	VOSKHOD 2	1274	USSR	18 MAR	19 MAR 65	
1965-022B		1285	USSR	18 MAR	27 MAR 65	
1965-022C		1286	USSR	18 MAR	25 MAR 65	
1965-022D		1287	USSR	18 MAR	19 MAR 65	
1965-023A	RANGER 9	1294	US	21 MAR	24 MAR 65	G*
1965-024A	GEMINI 3	1301	US	23 MAR	23 MAR 65	F*
1965-024B		1302	US	23 MAR	24 MAR 65	
1965-025A	COSMOS 64	1305	USSR	25 MAR	02 APR 65	
1965-025B		1306	USSR	25 MAR	04 APR 65	
1965-025C		1308	USSR	25 MAR	26 APR 65	
1965-026A		1307	US	25 MAR	04 APR 65	
1965-026B		1311	US	25 MAR	01 APR 65	
1965-027X		18268	US	03 APR	02 FEB 89	
1965-027AG		18670	US	03 APR	19 JAN 91	
1965-029A	COSMOS 65	1320	USSR	17 APR	25 APR 65	
1965-029B		1321	USSR	17 APR	06 MAY 65	
1965-029C		1322	USSR	17 APR	20 APR 65	
1965-030A	MOLNIYA 1-1	1324	USSR	23 APR	16 AUG 79	
1965-030B		1325	USSR	23 APR	20 JUL 65	
1965-030C		1326	USSR	23 APR	02 JUL 65	
1965-030D		1327	USSR	23 APR	04 JUN 79	
1965-031A		1329	US	28 APR	03 MAY 65	
1965-031B		1329	US	28 APR	31 OCT 69	
1965-031C		1331	US	28 APR	30 APR 65	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
		NAME											
1965-031D		COSMOS 66		1332	US			28 APR		30 APR 65			
1965-031E				1333	US			28 APR		08 MAY 65			
1965-031F				1334	US			28 APR		08 MAY 65			
1965-031G				1357	US			28 APR		18 MAR 66			
1965-032C				1995	US			29 APR		13 JAN 90			
1965-033A				1330	US			29 APR		26 MAY 65			
1965-033B				1367	US			29 APR		08 JUN 65			
1965-035A				1362	USSR			07 MAY		15 MAY 65			
1965-035B				1363	USSR			07 MAY		23 MAY 65			
1965-035C				1364	USSR			07 MAY		09 MAY 65			
1965-035D		LUNA 5		1365	USSR			07 MAY		09 MAY 65			
1965-036A				1366	USSR			09 MAY		12 MAY 65			
1965-036B				1368	USSR			09 MAY		10 MAY 65			
1965-036C				1369	USSR			09 MAY		10 MAY 65			
1965-037A				1374	US			18 MAY		15 JUN 65			
1965-037B				1415	US			18 MAY		02 JUN 65			
1965-038C				1379	US			20 MAY		07 APR 83			
1965-038D				1380	US			20 MAY		02 MAY 66			
1965-038E				1461	US			20 MAY		20 MAR 89			
1965-038F				1462	US			20 MAY		23 APR 80			
1965-038G		PEGASUS 2		1475	US			20 MAY		19 FEB 88			
1965-039A				1381	US			25 MAY		03 NOV 79			
1965-039B				1385	US			25 MAY		08 JUL 89			
1965-040A				1382	USSR			25 MAY		02 JUN 65			
1965-040B				1383	USSR			25 MAY		04 JUN 65			
1965-040C		COSMOS 67		1384	USSR			25 MAY		31 MAY 65			
1965-041A				1387	USSR			25 MAY		31 MAY 65			
1965-042A				1386	US			27 MAY		01 JUN 65			
1965-043A				1388	US			29 MAY		04 JUL 68			
1965-043B				1390	US			03 JUN		07 JUN 65			
1965-044B		EXPLORER 28 GEMINI 4		1391	US			03 JUN		05 JUN 65			
1965-044C				1394	USSR			08 JUN		12 JUN 65			
1965-045A				1395	USSR			08 JUN		10 JUN 65			
1965-045B				1396	US			09 JUN		22 JUN 65			
1965-046A				1414	US			09 JUN		20 JUN 65			
1965-046B		COSMOS 68		1404	USSR			15 JUN		23 JUN 65			
1965-046C				1405	USSR			15 JUN		07 JUL 65			
1965-046D				1406	USSR			15 JUN		20 JUN 65			
1965-046E				1407	USSR			15 JUN		19 JUN 65			
1965-047A				1408	USSR			15 JUN		19 JUN 65			
1965-047B				1412	US			18 JUN		29 JUN 65			
1965-048G				1413	US			18 JUN		29 JUN 65			
1965-048H				11952	US			24 JUN		21 JUN 65			
1965-048I				11953	US			24 JUN		24 FEB 89			
1965-048J				12516	US			24 JUN		07 MAR 89			
1965-048K		COSMOS 69		12582	US			24 JUN		09 MAR 82			
1965-048L				19062	US			24 JUN		11 MAY 91			
1965-048M				19838	US			24 JUN		31 OCT 89			
1965-049A				1421	USSR			25 JUN		03 JUL 65			
1965-049B				1423	USSR			25 JUN		06 JUL 65			
1965-049C				1429	USSR			25 JUN		30 JUN 65			
1965-050A				1422	US			25 JUN		22 AUG 68			

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-050B		1424	US	25 JUN	30 JUN 65	
1965-050C		1426	US	25 JUN	27 JUN 65	
1965-050D		1427	US	25 JUN	26 NOV 65	
1965-052A		1431	USSR	02 JUL	18 DEC 66	
1965-052B	COSMOS 70	1432	USSR	02 JUL	06 JUN 66	
1965-052C		1434	USSR	02 JUL	13 AUG 65	
1965-053A	COSMOS 71	1441	USSR	16 JUL	11 AUG 70	
1965-053B	COSMOS 72	1442	USSR	16 JUL	24 AUG 79	
1965-053C	COSMOS 73	1443	USSR	16 JUL	20 MAR 74	
1965-053D	COSMOS 74	1444	USSR	16 JUL	13 DEC 79	
1965-053E	COSMOS 75	1445	USSR	16 JUL	28 SEP 79	
1965-053F		1448	USSR	16 JUL	21 NOV 81	
1965-053G		1449	USSR	16 JUL	03 MAY 67	
1965-053H		1473	USSR	16 JUL	13 MAR 69	
1965-053J		2338	USSR	16 JUL	12 NOV 67	
1965-054A		1466	USSR	16 JUL	11 OCT 65	
1965-054B		1451	USSR	16 JUL	18 SEP 65	
1965-054C		1450	USSR	16 JUL	24 JUL 65	
1965-054D		1446	USSR	16 JUL	31 JUL 65	
1965-055A		1447	US	17 JUL	18 DEC 68	
1965-055B		1452	US	17 JUL	05 JUL 66	
1965-055C		1455	US	17 JUL	24 JUL 66	
1965-055D		1744	US	17 JUL	16 APR 66	
1965-055E		1745	US	17 JUL	23 MAR 66	
1965-056B		1453	USSR	18 JUL	20 JUL 65	
1965-056C		1456	USSR	18 JUL	21 JUL 65	
1965-057A		1457	US	19 JUL	18 AUG 65	
1965-058C	ERS 17	1460	US	20 JUL	01 JUL 68	
1965-058D		2428	US	20 JUL	17 SEP 77	
1965-059A	COSMOS 76	1464	USSR	23 JUL	16 MAR 66	
1965-059B		1465	USSR	23 JUL	04 DEC 65	
1965-060A	PEGASUS 3	1467	US	30 JUL	04 AUG 69	
1965-060B		1468	US	30 JUL	22 NOV 75	
1965-060C		6841	US	30 JUL	02 OCT 73	
1965-061A	COSMOS 77	1469	USSR	03 AUG	11 AUG 65	
1965-062A		1470	USSR	03 AUG	08 AUG 65	
1965-062B		1471	US	03 AUG	07 AUG 65	
1965-062C		1472	US	03 AUG	17 JUN 68	
1965-062M		1474	US	03 AUG	06 AUG 65	
1965-065M		2335	US	13 AUG	13 APR 81	
1965-065N		3809	US	13 AUG	12 NOV 82	
1965-065R		5363	US	13 AUG	09 NOV 80	
1965-065S		6290	US	13 AUG	02 JUN 81	
1965-065T		11855	US	13 AUG	15 JUN 90	
1965-066A	COSMOS 78	1505	USSR	14 AUG	22 AUG 65	
1965-066B		1507	USSR	14 AUG	03 SEP 65	
1965-066C		1509	USSR	14 AUG	17 AUG 65	
1965-067A		1513	US	17 AUG	11 OCT 65	
1965-068A	GEMINI 5	1516	US	21 AUG	29 AUG 65	
1965-068B		1517	US	21 AUG	24 AUG 65	
1965-068C		1518	US	21 AUG	27 AUG 65	
1965-068D		1519	US	21 AUG	26 AUG 65	

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INTER-NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
NAME	DESIGNATION	NUMBER	NUMBER	NUMBER					
COSMOS 79	1965-069A	1523	USSR	25 AUG	02 SEP 65				
	1965-069B	1524	USSR	25 AUG	07 SEP 65				
	1965-069C	1525	USSR	25 AUG	26 AUG 65				
	1965-069D	1526	USSR	25 AUG	31 AUG 65				
COSMOS 85	1965-069E	1527	USSR	25 AUG	31 AUG 65				
	1965-071A	1578	USSR	09 SEP	17 SEP 65				
	1965-071B	1579	USSR	09 SEP	18 SEP 65				
	1965-072B	1581	US	10 SEP	25 FEB 67				
COSMOS 91	1965-072C	1582	US	10 SEP	06 APR 67				
	1965-074A	1602	US	22 SEP	11 OCT 65				
	1965-075A	1603	USSR	23 SEP	01 OCT 65				
	1965-075B	1604	USSR	23 SEP	04 OCT 65				
	1965-075C	1605	USSR	23 SEP	29 SEP 65				
	1965-075D	1606	USSR	23 SEP	29 SEP 65				
	1965-075E	1607	USSR	23 SEP	29 SEP 65				
	1965-076A	1609	US	30 SEP	05 OCT 65				
LUNA 7	1965-076B	1614	US	30 SEP	03 OCT 65				
	1965-077A	1610	USSR	04 OCT	07 OCT 65				
	1965-077B	1611	USSR	04 OCT	04 OCT 65				
	1965-077C	1612	USSR	04 OCT	05 OCT 65				
MOLNIYA 1-2	1965-079A	1615	US	05 OCT	29 OCT 65				
	1965-080A	1621	USSR	13 OCT	17 MAR 67				
	1965-080B	1619	USSR	13 OCT	08 NOV 65				
	1965-080C	1622	USSR	13 OCT	22 OCT 65				
OGD 2	1965-080D	1623	USSR	13 OCT	16 NOV 65				
	1965-080E	2735	USSR	13 OCT	18 JAN 67				
	1965-081A	1620	US	14 OCT	17 SEP 81				
	1965-081B	1625	US	14 OCT	27 NOV 87				
TITAN 3 C-4	1965-082A	1624	US	15 OCT	27 JUL 72				
	1965-082B	1640	US	15 OCT	25 AUG 82				
	1965-082E	1643	US	15 OCT	25 DEC 89				
	1965-082F	1644	US	15 OCT	14 AUG 80				
	1965-082G	1645	US	15 OCT	04 MAY 79				
	1965-082K	1648	US	15 OCT	02 MAR 68				
	1965-082L	1649	US	15 OCT	16 OCT 79				
	1965-082M	1650	US	15 OCT	18 OCT 79				
	1965-082N	1651	US	15 OCT	27 JAN 91				
	1965-082P	1652	US	15 OCT	15 MAR 79				
	1965-082R	1654	US	15 OCT	16 OCT 79				
	1965-082S	1655	US	15 OCT	19 APR 71				
	1965-082T	1656	US	15 OCT	25 NOV 81				
	1965-082U	1657	US	15 OCT	17 JUN 70				
	1965-082V	1658	US	15 OCT	08 MAY 70				
	1965-082W	1659	US	15 OCT	20 NOV 69				
	1965-082X	1660	US	15 OCT	23 SEP 69				
	1965-082Y	1661	US	15 OCT	15 MAY 71				
	1965-082Z	1662	US	15 OCT	31 AUG 89				
	1965-082AC	1665	US	15 OCT	28 JAN 81				
	1965-082AD	1666	US	15 OCT	16 JUN 79				
	1965-082AE	1667	US	15 OCT	02 APR 82				
	1965-082AG	1669	US	15 OCT	15 AUG 71				
	1965-082AH	1670	US	15 OCT	25 FEB 89				

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-082AM		1674	US	15 OCT	18 MAR 69	
1965-082AN		1675	US	15 OCT	08 APR 79	
1965-082AR		1678	US	15 OCT	30 MAY 80	
1965-082AS		1679	US	15 OCT	24 MAY 80	
1965-082AU		1681	US	15 OCT	13 AUG 91	
1965-082AW		1683	US	15 OCT	11 JUL 66	
1965-082BB		1688	US	15 OCT	01 MAY 81	
1965-082BC		1689	US	15 OCT	29 DEC 78	
1965-082BD		1690	US	15 OCT	11 JUN 81	
1965-082BE		1691	US	15 OCT	12 MAR 71	
1965-082BF		1692	US	15 OCT	22 SEP 70	
1965-082BH		1694	US	15 OCT	26 OCT 70	
1965-082BJ		1695	US	15 OCT	28 MAR 89	
1965-082BK		1696	US	15 OCT	18 JAN 68	
1965-082BL		1697	US	15 OCT	08 JAN 78	
1965-082BM		1698	US	15 OCT	09 MAY 72	
1965-082BN		1699	US	15 OCT	21 NOV 66	
1965-082BP		1700	US	15 OCT	03 APR 70	
1965-082BQ		1709	US	15 OCT	07 APR 82	
1965-082BR		1710	US	15 OCT	01 MAR 73	
1965-082BS		1711	US	15 OCT	20 MAR 71	
1965-082BT		1712	US	15 OCT	16 SEP 81	
1965-082BU		1713	US	15 OCT	02 JAN 69	
1965-082BV		1714	US	15 OCT	09 AUG 70	
1965-082BW		1715	US	15 OCT	04 FEB 93	
1965-082BY		1717	US	15 OCT	02 FEB 69	
1965-082BZ		1718	US	15 OCT	07 JUN 81	
1965-082CA		1719	US	15 OCT	03 MAR 81	
1965-082CB		1720	US	15 OCT	04 MAR 67	
1965-082CE		1723	US	15 OCT	06 NOV 78	
1965-082CF		1724	US	15 OCT	26 APR 68	
1965-082CH		1746	US	15 OCT	03 MAY 78	
1965-082CJ		1747	US	15 OCT	19 AUG 80	
1965-082CK		1748	US	15 OCT	30 MAY 91	
1965-082CL		1749	US	15 OCT	08 DEC 79	
1965-082CM		1750	US	15 OCT	08 FEB 70	
1965-082CN		1751	US	15 OCT	21 OCT 79	
1965-082CP		1752	US	15 OCT	08 DEC 80	
1965-082CQ		1753	US	15 OCT	30 APR 90	
1965-082CR		1754	US	15 OCT	04 AUG 68	
1965-082CS		1755	US	15 OCT	30 APR 81	
1965-082CT		1756	US	15 OCT	13 SEP 87	
1965-082CU		1757	US	15 OCT	05 MAY 81	
1965-082CV		1758	US	15 OCT	13 JAN 73	
1965-082CW		1759	US	15 OCT	21 OCT 80	
1965-082CX		1760	US	15 OCT	31 MAR 71	
1965-082CZ		1762	US	15 OCT	22 JAN 68	
1965-082DA		1763	US	15 OCT	08 OCT 72	
1965-082DB		1764	US	15 OCT	28 SEP 77	
1965-082DC		1765	US	15 OCT	09 JUN 73	
1965-082DD		1766	US	15 OCT	03 APR 71	
1965-082DE		1767	US	15 OCT	19 FEB 71	

INTER- NATIONAL DESIGNATION	DECEASED OBJECTS NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-082DF		1768	US	15 OCT	27 NOV 70	
1965-082DG		1769	US	15 OCT	07 NOV 81	
1965-082DH		1770	US	15 OCT	10 SEP 79	
1965-082DJ		1819	US	15 OCT	20 JUN 79	
1965-082DK		1820	US	15 OCT	30 MAR 81	
1965-082DL		1821	US	15 OCT	05 MAY 67	
1965-082DN		1823	US	15 OCT	21 APR 74	
1965-082DP		1824	US	15 OCT	11 JUL 67	
1965-082DQ		1825	US	15 OCT	03 JUL 89	
1965-082DR		1826	US	15 OCT	22 MAR 66	
1965-082DS		1827	US	15 OCT	30 DEC 80	
1965-082DT		1828	US	15 OCT	02 JAN 79	
1965-082DV		1830	US	15 OCT	18 JUN 91	
1965-082DW		1831	US	15 OCT	20 NOV 67	
1965-082DZ		1834	US	15 OCT	10 JUL 67	
1965-082EB		1836	US	15 OCT	17 APR 93	
1965-082EC		1837	US	15 OCT	01 MAY 68	
1965-082ED		1861	US	15 OCT	22 DEC 89	
1965-082EF		1862	US	15 OCT	11 SEP 68	
1965-082EG		1848	US	15 OCT	17 SEP 69	
1965-082EH		1849	US	15 OCT	19 JUL 67	
1965-082EJ		1851	US	15 OCT	17 JAN 68	
1965-082EK		1850	US	15 OCT	29 SEP 66	
1965-082EL		1853	US	15 OCT	22 APR 70	
1965-082EM		1854	US	15 OCT	29 NOV 66	
1965-082EN		1855	US	15 OCT	27 APR 66	
1965-082EP		1856	US	15 OCT	12 SEP 74	
1965-082ER		1858	US	15 OCT	06 FEB 67	
1965-082ET		1860	US	15 OCT	03 JAN 67	
1965-082EU		1879	US	15 OCT	19 APR 69	
1965-082EV		1880	US	15 OCT	22 MAR 66	
1965-082EW		1881	US	15 OCT	11 SEP 66	
1965-082EX		1882	US	15 OCT	07 JAN 89	
1965-082EZ		1884	US	15 OCT	14 JUL 70	
1965-082FA		1885	US	15 OCT	14 OCT 90	
1965-082FB		1886	US	15 OCT	30 JAN 70	
1965-082FC		1887	US	15 OCT	01 MAR 68	
1965-082FD		1888	US	15 OCT	23 MAY 79	
1965-082FE		1889	US	15 OCT	09 MAY 67	
1965-082FF		1890	US	15 OCT	09 JAN 68	
1965-082FG		1891	US	15 OCT	28 MAR 67	
1965-082FH		1892	US	15 OCT	11 MAR 68	
1965-082FJ		1893	US	15 OCT	16 APR 67	
1965-082FK		1894	US	15 OCT	02 NOV 67	
1965-082FL		1895	US	15 OCT	14 SEP 69	
1965-082FM		1896	US	15 OCT	08 SEP 66	
1965-082FN		1897	US	15 OCT	23 SEP 66	
1965-082FP		1898	US	15 OCT	07 FEB 67	
1965-082FQ		1899	US	15 OCT	09 NOV 83	
1965-082FR		1900	US	15 OCT	11 JUL 67	
1965-082FS		1908	US	15 OCT	14 NOV 66	
					23 MAR 66	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-082FT		1909	US	15 OCT	19 JUL 66	
1965-082FU		1910	US	15 OCT	09 MAY 66	
1965-082FV		1911	US	15 OCT	21 JUN 66	
1965-082FW		1912	US	15 OCT	14 AUG 66	
1965-082FX		1913	US	15 OCT	26 SEP 79	
1965-082FY		1914	US	15 OCT	09 DEC 79	
1965-082GA		1916	US	15 OCT	01 FEB 81	
1965-082GB		1917	US	15 OCT	07 APR 82	
1965-082GC		1918	US	15 OCT	10 NOV 78	
1965-082GD		1919	US	15 OCT	02 DEC 78	
1965-082GE		1920	US	15 OCT	08 FEB 80	
1965-082GF		1921	US	15 OCT	24 FEB 67	
1965-082GG		1922	US	15 OCT	05 MAR 79	
1965-082GH		1923	US	15 OCT	15 JUN 68	
1965-082GJ		1924	US	15 OCT	21 JUN 66	
1965-082GK		1925	US	15 OCT	15 OCT 67	
1965-082GL		1926	US	15 OCT	17 MAY 70	
1965-082GM		1927	US	15 OCT	03 AUG 73	
1965-082GN		1928	US	15 OCT	28 FEB 68	
1965-082GP		1929	US	15 OCT	11 APR 82	
1965-082GQ		1930	US	15 OCT	12 SEP 66	
1965-082GR		1930	US	15 OCT	12 SEP 66	
1965-082GS		1956	US	15 OCT	12 AUG 68	
1965-082GT		1957	US	15 OCT	02 FEB 79	
1965-082GV		1960	US	15 OCT	23 MAY 79	
1965-082HA		1965	US	15 OCT	23 MAR 82	
1965-082HB		1969	US	15 OCT	06 MAR 70	
1965-082HC		1970	US	15 OCT	08 SEP 69	
1965-082HD		1971	US	15 OCT	11 OCT 69	
1965-082HE		1972	US	15 OCT	22 SEP 70	
1965-082HF		1973	US	15 OCT	02 FEB 67	
1965-082HG		1974	US	15 OCT	05 MAY 81	
1965-082HH		1975	US	15 OCT	05 MAR 81	
1965-082HJ		1976	US	15 OCT	23 MAY 81	
1965-082HK		1977	US	15 OCT	14 APR 82	
1965-082HL		1978	US	15 OCT	14 JUL 82	
1965-082HM		1979	US	15 OCT	09 MAR 80	
1965-082HN		1980	US	15 OCT	07 OCT 67	
1965-082HQ		1984	US	15 OCT	25 MAY 69	
1965-082HR		1985	US	15 OCT	29 MAR 74	
1965-082HS		1986	US	15 OCT	18 AUG 68	
1965-082HT		1987	US	15 OCT	08 JAN 80	
1965-082HU		1988	US	15 OCT	04 SEP 69	
1965-082HV		1989	US	15 OCT	14 NOV 70	
1965-082HW		1990	US	15 OCT	13 FEB 70	
1965-082HX		1991	US	15 OCT	09 JAN 69	
1965-082HY		1992	US	15 OCT	06 FEB 68	
1965-082HZ		1993	US	15 OCT	12 NOV 80	
1965-082JA		1999	US	15 OCT	30 MAR 80	
1965-082JB		2041	US	15 OCT	20 APR 67	
1965-082JC		2042	US	15 OCT	16 MAR 73	
1965-082JD		2043	US	15 OCT	21 NOV 79	
					01 SEP 68	

INTER- NATIONAL DESIGNATION	DECEASED OBJECTS  NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-082UE		2044	US	15 OCT	20 NOV 80	
1965-082JF		2045	US	15 OCT	20 OCT 67	
1965-082UG		2046	US	15 OCT	15 NOV 67	
1965-082JH		2047	US	15 OCT	16 NOV 67	
1965-082JU		2048	US	15 OCT	27 JAN 67	
1965-082JK		2049	US	15 OCT	14 JAN 70	
1965-082JM		2051	US	15 OCT	16 SEP 81	
1965-082JN		2052	US	15 OCT	26 JUN 72	
1965-082JP		2053	US	15 OCT	27 FEB 73	
1965-082JUQ		2054	US	15 OCT	23 JAN 67	
1965-082JR		2055	US	15 OCT	28 JUN 66	
1965-082JS		2079	US	15 OCT	12 APR 83	
1965-082JT		2080	US	15 OCT	23 SEP 66	
1965-082JU		2081	US	15 OCT	08 NOV 66	
1965-082JV		2082	US	15 OCT	16 JUN 79	
1965-082JW		2083	US	15 OCT	20 JUN 89	
1965-082JX		2084	US	15 OCT	29 AUG 81	
1965-082JY		2100	US	15 OCT	13 DEC 68	
1965-082JZ		2101	US	15 OCT	19 DEC 80	
1965-082KA		2102	US	15 OCT	15 APR 69	
1965-082KB		2103	US	15 OCT	27 NOV 67	
1965-082KC		2158	US	15 OCT	27 OCT 66	
1965-082KE		2333	US	15 OCT	29 SEP 67	
1965-082KF		2340	US	15 OCT	11 JUL 73	
1965-082KG		2384	US	15 OCT	29 SEP 73	
1965-082KH		2385	US	15 OCT	16 APR 89	
1965-082KJ		2390	US	15 OCT	27 OCT 66	
1965-082KK		2493	US	15 OCT	16 FEB 73	
1965-082KL		2573	US	15 OCT	15 MAR 71	
1965-082KM		2574	US	15 OCT	03 DEC 68	
1965-082KN		2699	US	15 OCT	03 JUL 89	
1965-082KP		2786	US	15 OCT	12 FEB 79	
1965-082KS		2787	US	15 OCT	19 SEP 80	
1965-082KT		2790	US	15 OCT	13 AUG 82	
1965-082KU		2791	US	15 OCT	29 APR 81	
1965-082KV		2792	US	15 OCT	26 DEC 71	
1965-082KW		2794	US	15 OCT	03 FEB 81	
1965-082KY		2795	US	15 OCT	14 SEP 78	
1965-082KZ		2887	US	15 OCT	21 MAR 80	
1965-082LA		2898	US	15 OCT	27 JUN 71	
1965-082LB		2899	US	15 OCT	06 MAY 79	
1965-082LC		2929	US	15 OCT	23 APR 79	
1965-082LE		2932	US	15 OCT	26 APR 90	
1965-082LF		2991	US	15 OCT	20 FEB 79	
1965-082LG		2992	US	15 OCT	29 MAR 69	
1965-082LH		3039	US	15 OCT	05 FEB 79	
1965-082LJ		3040	US	15 OCT	29 MAR 71	
1965-082LJ		3046	US	15 OCT	07 OCT 88	
1965-082LK		3049	US	15 OCT	06 JAN 68	
1965-082LL		3050	US	15 OCT	03 JUL 79	
1965-082LM		3064	US	15 OCT	25 DEC 79	
1965-082LN		3065	US	15 OCT	26 NOV 89	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-082LP		3149	US	15 OCT	03 DEC 70	
1965-082LQ		3325	US	15 OCT	17 MAR 69	
1965-082LR		3331	US	15 OCT	01 DEC 79	
1965-082LS		3355	US	15 OCT	03 NOV 92	
1965-082LT		3356	US	15 OCT	07 MAR 79	
1965-082LV		3357	US	15 OCT	09 APR 84	
1965-082LW		3358	US	15 OCT	27 MAR 82	
1965-082LX		3359	US	15 OCT	26 SEP 90	
1965-082LZ		3360	US	15 OCT	11 JUN 72	
1965-082MA		3362	US	15 OCT	03 DEC 81	
1965-082MB		3363	US	15 OCT	12 APR 82	
1965-082MC		3364	US	15 OCT	30 NOV 80	
1965-082MD		3365	US	15 OCT	09 MAR 80	
1965-082ME		3366	US	15 OCT	13 APR 81	
1965-082MF		3367	US	15 OCT	21 JAN 80	
1965-082MG		3368	US	15 OCT	01 MAR 70	
1965-082MH		3369	US	15 OCT	26 FEB 90	
1965-082MJ		3370	US	15 OCT	30 MAR 80	
1965-082MK		3371	US	15 OCT	10 AUG 82	
1965-082MM		3372	US	15 OCT	01 NOV 78	
1965-082MN		3374	US	15 OCT	10 APR 79	
1965-082MP		3376	US	15 OCT	30 MAY 80	
1965-082MQ		3377	US	15 OCT	16 OCT 80	
1965-082MR		3378	US	15 OCT	17 JAN 79	
1965-082MS		3379	US	15 OCT	30 JUL 79	
1965-082MU		3380	US	15 OCT	25 SEP 90	
1965-082MV		3382	US	15 OCT	06 SEP 78	
1965-082MW		3383	US	15 OCT	29 OCT 91	
1965-082MX		3384	US	15 OCT	18 JUN 81	
1965-082MZ		3385	US	15 OCT	12 APR 69	
1965-082NA		3387	US	15 OCT	11 MAR 90	
1965-082NB		3400	US	15 OCT	10 MAR 79	
1965-082NC		3401	US	15 OCT	01 MAR 72	
1965-082ND		3402	US	15 OCT	05 JUL 78	
1965-082NE		3403	US	15 OCT	06 NOV 80	
1965-082NF		3404	US	15 OCT	03 MAR 70	
1965-082NG		3405	US	15 OCT	21 MAY 69	
1965-082NH		3406	US	15 OCT	08 MAY 69	
1965-082NJ		3407	US	15 OCT	17 APR 78	
1965-082NK		3410	US	15 OCT	05 OCT 73	
1965-082NL		3411	US	15 OCT	06 OCT 80	
1965-082NM		3412	US	15 OCT	14 MAY 70	
1965-082NN		3413	US	15 OCT	08 MAR 69	
1965-082NP		3420	US	15 OCT	13 APR 81	
1965-082NQ		3421	US	15 OCT	13 JAN 69	
1965-082NR		3422	US	15 OCT	24 SEP 69	
1965-082NS		3423	US	15 OCT	13 JUL 80	
1965-082NT		3424	US	15 OCT	22 APR 79	
1965-082NU		3425	US	13 AUG	17 OCT 81	
1965-082NV		3426	US	15 OCT	18 FEB 81	
1965-082NW		3427	US	15 OCT	28 MAY 80	
		3433	US	15 OCT	19 OCT 78	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-082NX		3434	US	15 OCT	13 APR 82	
1965-082NY		3435	US	15 OCT	20 DEC 79	
1965-082NZ		3436	US	15 OCT	08 MAR 69	
1965-082PA		3437	US	15 OCT	28 NOV 81	
1965-082PB		3438	US	15 OCT	13 OCT 71	
1965-082PC		3439	US	15 OCT	31 JAN 80	
1965-082PD		3440	US	15 OCT	13 APR 81	
1965-082PE		3441	US	15 OCT	04 DEC 88	
1965-082PF		3442	US	15 OCT	12 JUN 69	
1965-082PG		3443	US	15 OCT	15 APR 80	
1965-082PH		3444	US	15 OCT	01 MAY 81	
1965-082PJ		3445	US	15 OCT	25 JUL 80	
1965-082PK		3446	US	15 OCT	13 FEB 81	
1965-082PL		3447	US	15 OCT	01 JUL 79	
1965-082PM		3448	US	15 OCT	01 JAN 83	
1965-082PN		3453	US	15 OCT	29 APR 69	
1965-082PO		3455	US	15 OCT	24 DEC 80	
1965-082PR		3456	US	15 OCT	18 FEB 82	
1965-082PS		3461	US	15 OCT	19 JUL 84	
1965-082PU		3463	US	15 OCT	21 MAY 82	
1965-082PV		3464	US	15 OCT	21 OCT 81	
1965-082PW		3465	US	15 OCT	19 SEP 72	
1965-082PX		3466	US	15 OCT	18 NOV 91	
1965-082PZ		3468	US	15 OCT	17 OCT 80	
1965-082QA		3475	US	15 OCT	03 MAY 73	
1965-082QB		3476	US	15 OCT	19 APR 72	
1965-082QC		3477	US	15 OCT	07 APR 71	
1965-082QD		3478	US	15 OCT	04 MAR 80	
1965-082QE		3480	US	15 OCT	14 MAR 69	
1965-082QF		3481	US	15 OCT	10 FEB 80	
1965-082QG		3482	US	15 OCT	05 MAR 75	
1965-082QH		3483	US	15 OCT	29 MAY 78	
1965-082QK		3489	US	15 OCT	03 JUN 70	
1965-082QL		3490	US	15 OCT	13 JAN 78	
1965-082QM		3491	US	15 OCT	08 JUN 80	
1965-082QP		3493	US	15 OCT	21 JAN 69	
1965-082QR		3495	US	15 OCT	21 SEP 69	
1965-082QS		3496	US	15 OCT	05 APR 79	
1965-082QT		3497	US	15 OCT	19 MAR 80	
1965-082QU		3498	US	15 OCT	27 OCT 91	
1965-082QV		3499	US	15 OCT	22 MAY 80	
1965-082QW		3500	US	15 OCT	14 JUL 70	
1965-082QX		3501	US	15 OCT	23 SEP 71	
1965-082QY		3502	US	15 OCT	27 MAR 79	
1965-082QZ		3718	US	15 OCT	21 SEP 88	
1965-082RA		3719	US	15 OCT	26 MAR 71	
1965-082RB		3720	US	15 OCT	07 NOV 79	
1965-082RC		3721	US	15 OCT	27 JUL 72	
1965-082RD		3722	US	15 OCT	15 MAY 70	
1965-082RE		3723	US	15 OCT	14 JUL 79	
1965-082RF		3724	US	15 OCT	06 DEC 69	
1965-082RG		3725	US	15 OCT	11 NOV 69	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-082RH		3726	US	15 OCT	06 APR 69	
1965-082RJ		3727	US	15 OCT	22 JUN 69	
1965-082RK		3728	US	15 OCT	01 FEB 70	
1965-082RL		3729	US	15 OCT	26 JUN 69	
1965-082RM		3730	US	15 OCT	21 DEC 77	
1965-082RN		3731	US	15 OCT	16 AUG 71	
1965-082RP		3732	US	15 OCT	07 JUN 78	
1965-082RQ		3733	US	15 OCT	05 SEP 79	
1965-082RR		3734	US	15 OCT	02 DEC 69	
1965-082RS		3735	US	15 OCT	23 SEP 69	
1965-082RT		3736	US	15 OCT	05 APR 78	
1965-082RU		3746	US	15 OCT	29 NOV 80	
1965-082RV		3751	US	15 OCT	24 JAN 83	
1965-082RW		3838	US	15 OCT	30 NOV 80	
1965-082RX		3839	US	15 OCT	23 FEB 77	
1965-082RY		3925	US	15 OCT	30 SEP 80	
1965-082RZ		3926	US	15 OCT	26 FEB 79	
1965-082SA		3928	US	15 OCT	17 APR 83	
1965-082SB		3929	US	15 OCT	27 DEC 70	
1965-082SC		3930	US	15 OCT	19 NOV 82	
1965-082SD		3936	US	15 OCT	22 APR 70	
1965-082SF		3980	US	15 OCT	24 APR 70	
1965-082SG		3981	US	15 OCT	19 FEB 70	
1965-082SH		3982	US	15 OCT	25 OCT 69	
1965-082SJ		3996	US	15 OCT	26 DEC 69	
1965-082SK		3998	US	15 OCT	06 FEB 71	
1965-082SL		4003	US	15 OCT	18 FEB 81	
1965-082SM		4004	US	15 OCT	05 JAN 70	
1965-082SN		4017	US	15 OCT	13 AUG 79	
1965-082SP		4020	US	15 OCT	16 JUN 79	
1965-082SQ		4023	US	15 OCT	02 FEB 70	
1965-082SR		4025	US	15 OCT	16 OCT 69	
1965-082SS		4032	US	15 OCT	30 DEC 69	
1965-082ST		4033	US	15 OCT	03 SEP 70	
1965-082SU		4021	US	15 OCT	06 FEB 81	
1965-082SW		5056	US	15 OCT	03 MAY 71	
1965-082SX		5057	US	15 OCT	26 MAY 78	
1965-082SY		5058	US	15 OCT	07 MAR 81	
1965-082SZ		5085	US	15 OCT	12 SEP 80	
1965-082TA		5312	US	15 OCT	02 APR 72	
1965-082TB		5344	US	15 OCT	25 MAR 73	
1965-082TC		5345	US	15 OCT	25 JUN 80	
1965-082TD		5372	US	15 OCT	22 NOV 82	
1965-082TE		5375	US	15 OCT	19 APR 78	
1965-082TF		5376	US	15 OCT	07 DEC 91	
1965-082TG		5471	US	15 OCT	31 AUG 79	
1965-082TH		5567	US	15 OCT	21 NOV 72	
1965-082TI		5568	US	15 OCT	24 JAN 81	
1965-082TK		5569	US	15 OCT	22 JAN 80	
1965-082TL		5571	US	15 OCT	06 APR 81	
1965-082TM		5572	US	15 OCT	24 AUG 75	
1965-082TN		5711	US	15 OCT	21 JUN 80	

INTER- NATIONAL DESIGNATION	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DEATH	NOTES
1965-082TP		5719	US	15 OCT	30 JUL 75	
1965-082TQ		5734	US	15 OCT	03 JUL 80	
1965-082TR		5744	US	15 OCT	21 NOV 78	
1965-082TS		5768	US	15 OCT	01 MAR 72	
1965-082TT		5811	US	15 OCT	18 JUL 79	
1965-082TU		5844	US	15 OCT	13 MAY 74	
1965-082TV		5845	US	15 OCT	17 SEP 82	
1965-082TW		5856	US	15 OCT	23 OCT 72	
1965-082TX		5857	US	15 OCT	03 AUG 79	
1965-082TY		5955	US	15 OCT	22 FEB 78	
1965-082TZ		5968	US	15 OCT	11 MAY 77	
1965-082UA		5970	US	15 OCT	26 JUL 73	
1965-082UB		5982	US	15 OCT	31 JAN 73	
1965-082UC		6041	US	15 OCT	04 JUL 72	
1965-082UD		6042	US	15 OCT	28 AUG 73	
1965-082UE		6141	US	15 OCT	23 FEB 73	
1965-082UF		6183	US	15 OCT	15 SEP 74	
1965-082UG		6253	US	15 OCT	15 APR 83	
1965-082UH		6783	US	15 OCT	27 JUL 80	
1965-082UJ		9840	US	15 OCT	21 MAY 78	
1965-082UK		14842	US	15 OCT	11 SEP 89	
1965-082UL		14843	US	15 OCT	27 APR 88	
1965-082UM		18258	US	16 OCT	04 FEB 89	
1965-082UN		18874	US	15 OCT	28 FEB 90	
1965-082UP		19182	US	15 OCT	08 FEB 91	
1965-083A	COSMOS 92	1626	USSR	16 OCT	24 OCT 65	
1965-083B		1627	USSR	16 OCT	29 OCT 65	
1965-083C		1628	USSR	16 OCT	25 OCT 65	
1965-084A	COSMOS 93	1629	USSR	19 OCT	03 JAN 66	
1965-084B		1630	USSR	19 OCT	17 NOV 65	
1965-084C		1631	USSR	19 OCT	25 OCT 65	
1965-084D		1632	USSR	19 OCT	26 OCT 65	
1965-084E		2098	USSR	19 OCT	06 JUL 68	
1965-085A	COSMOS 94	1636	USSR	28 OCT	05 NOV 65	
1965-085B		1638	USSR	28 OCT	03 NOV 65	
1965-086A		1637	US	28 OCT	17 NOV 65	
1965-086B		1639	US	28 OCT	01 NOV 65	
1965-087A	PROTON 2	1701	USSR	02 NOV	06 FEB 66	
1965-087B		1702	USSR	02 NOV	04 JAN 66	
1965-087C		1703	USSR	02 NOV	16 NOV 65	
1965-087D		1704	USSR	02 NOV	08 NOV 65	
1965-087E		1705	USSR	02 NOV	08 NOV 65	
1965-088A	COSMOS 95	1706	USSR	04 NOV	18 JAN 66	
1965-088B		1707	USSR	04 NOV	28 NOV 65	
1965-088C		1708	USSR	04 NOV	11 NOV 65	
1965-088D		1740	USSR	04 NOV	06 JAN 66	
1965-088E		1741	USSR	04 NOV	13 DEC 65	
1965-088F		1784	USSR	04 NOV	11 NOV 65	
1965-088G		1785	USSR	04 NOV	16 NOV 65	
1965-088H		1786	USSR	04 NOV	09 NOV 65	
1965-088J		1787	USSR	04 NOV	09 NOV 65	
1965-088K		1788	USSR	04 NOV	19 NOV 65	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-088L		1789	USSR	04 NOV	28 NOV 65	
1965-088M		1790	USSR	04 NOV	12 NOV 65	
1965-088N		1791	USSR	04 NOV	07 NOV 65	
1965-088P		1792	USSR	04 NOV	16 NOV 65	
1965-088Q		1793	USSR	04 NOV	07 NOV 65	
1965-088R		1794	USSR	04 NOV	28 NOV 65	
1965-088S		1795	USSR	04 NOV	08 NOV 65	
1965-088T		1796	USSR	04 NOV	15 NOV 65	
1965-088U		1797	USSR	04 NOV	11 NOV 65	
1965-088V		1798	USSR	04 NOV	28 NOV 65	
1965-088W		1799	USSR	04 NOV	28 NOV 65	
1965-088X		1800	USSR	04 NOV	28 NOV 65	
1965-088Y		1801	USSR	04 NOV	26 NOV 65	
1965-088Z		1802	USSR	04 NOV	28 NOV 65	
1965-090A		1727	US	08 NOV	11 NOV 65	
1965-090B		1728	US	08 NOV	09 NOV 65	
1965-091B		1731	USSR	12 NOV	17 NOV 65	
1965-091C		1732	USSR	12 NOV	25 NOV 65	
1965-092A	VENERA 3	1733	USSR	16 NOV	01 MAR 66	
1965-092B		1734	USSR	16 NOV	26 NOV 65	
1965-092C		1735	USSR	16 NOV	03 DEC 65	
1965-092E		1737	USSR	16 NOV	16 NOV 65	
1965-094A	COSMOS 96	1742	USSR	23 NOV	09 DEC 65	
1965-094B		1743	USSR	23 NOV	04 DEC 65	
1965-094C		1771	USSR	23 NOV	28 NOV 65	
1965-094D		1772	USSR	23 NOV	29 NOV 65	
1965-094E		1773	USSR	23 NOV	28 NOV 65	
1965-094F		1774	USSR	23 NOV	28 NOV 65	
1965-094G		1775	USSR	23 NOV	08 DEC 65	
1965-094H		1776	USSR	23 NOV	08 DEC 65	
1965-095A	COSMOS 97	1777	USSR	26 NOV	02 APR 67	
1965-095B		1779	USSR	26 NOV	21 JAN 66	
1965-095C		1782	USSR	26 NOV	21 JAN 66	
1965-095D		1783	USSR	26 NOV	25 MAR 67	
1965-096C		1938	FRANCE	26 NOV	05 DEC 65	
1965-097A	COSMOS 98	1780	USSR	27 NOV	23 JAN 66	
1965-097B		1781	USSR	27 NOV	08 DEC 65	
1965-097C		1803	USSR	29 NOV	11 FEB 92	
1965-098K	LUNA 8	20833	US	03 DEC	06 DEC 65	A*
1965-099A		1810	USSR	03 DEC	05 DEC 65	
1965-099B		1809	USSR	03 DEC	06 DEC 65	
1965-099C		1811	USSR	03 DEC	06 DEC 65	
1965-100A	GEMINI 7	1812	US	04 DEC	18 DEC 65	F*
1965-100B		1813	US	04 DEC	07 DEC 65	
1965-100C		1845	US	04 DEC	27 JAN 66	
1965-101C		1934	FRANCE	06 DEC	10 DEC 81	
1965-101D		1935	FRANCE	06 DEC	10 NOV 80	
1965-102A		1816	US	09 DEC	26 DEC 65	
1965-102B		1838	US	09 DEC	15 DEC 65	
1965-103A	COSMOS 99	1817	USSR	10 DEC	18 DEC 65	
1965-103B		1818	USSR	10 DEC	28 DEC 65	
1965-104A	GEMINI 6	1839	US	15 DEC	16 DEC 65	F*

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965-104B		1840	US	15 DEC	16 DEC 65	
1965-105B		1842	US	16 DEC	06 SEP 68	
1965-107A	COSMOS 101	1846	USSR	21 DEC	12 JUL 66	
1965-107B		1847	USSR	21 DEC	16 APR 66	
1965-108A	TITAN 3 C-8	1863	US	21 DEC	17 AUG 75	
1965-108B	LES 4	1870	US	21 DEC	01 AUG 77	
1965-108C	OSCAR 4	1902	US	21 DEC	12 APR 76	
1965-108D	LES 3	1941	US	21 DEC	06 APR 68	
1965-108E		3999	US	21 DEC	21 AUG 69	
1965-108F		4429	US	21 DEC	03 NOV 75	
1965-108G		4476	US	21 DEC	01 AUG 77	
1965-108H		5472	US	21 DEC	25 NOV 72	
1965-108J		5474	US	21 DEC	03 FEB 73	
1965-108K		5980	US	21 DEC	12 APR 76	
1965-110A		1866	US	24 DEC	20 JAN 66	
1965-110B		1901	US	24 DEC	06 JAN 66	
1965-111A	COSMOS 102	1867	USSR	27 DEC	13 JAN 66	
1965-111A		1868	USSR	28 DEC	02 JAN 90	
1965-112A	COSMOS 103	1869	USSR	28 DEC	15 JUN 82	P*
1965-112B		1871	USSR	28 DEC	25 APR 67	
1965-112C		1872	USSR	28 DEC	27 DEC 67	
1965-112D		1873	USSR	28 DEC	21 APR 67	
1965-112E		1874	USSR	28 DEC	01 MAY 68	
1965-112F		1875	USSR	28 DEC	17 FEB 68	
1965-112G		1876	USSR	28 DEC	12 MAR 68	
1965-112H		1877	USSR	28 DEC	22 MAR 68	
1965-112J		1878	USSR	28 DEC	02 JUL 70	
1965-112K		1906	USSR	28 DEC	19 OCT 68	
1965-112L		1907	USSR	28 DEC	16 OCT 68	
1965-112M		1933	USSR	28 DEC	05 JUL 67	
1965-112N						
1965-112P		1936	USSR	28 DEC	07 APR 69	

## 1966 LAUNCHES

1966-001A	COSMOS 104	1903	USSR	07 JAN	15 JAN 66	
1966-001B		1904	USSR	07 JAN	24 JAN 66	
1966-001C		1905	USSR	07 JAN	12 JAN 66	
1966-002A		1939	US	19 JAN	25 JAN 66	
1966-002B		1940	US	19 JAN	23 JAN 66	
1966-003A	COSMOS 105	1945	USSR	22 JAN	30 JAN 66	
1966-003B		1946	USSR	22 JAN	10 FEB 66	
1966-003C		1947	USSR	22 JAN	24 JAN 66	
1966-004A	COSMOS 106	1949	USSR	25 JAN	14 NOV 66	
1966-004B		1950	USSR	25 JAN	16 JUL 66	
1966-005G		4587	US	28 JAN	04 OCT 81	
1966-005H		11990	US	28 JAN	11 JAN 83	
1966-005I		14226	US	28 JAN	15 JUL 89	
1966-005K		15341	US	28 JAN	10 DEC 89	
1966-005L		19366	US	28 JAN	24 APR 90	
1966-005M		19366	US	28 JAN	03 FEB 66	
1966-006A	LUNA 9	1954	USSR	31 JAN	02 FEB 66	
1966-006B		1955	USSR	31 JAN	02 FEB 66	
1966-006C		1966	USSR	31 JAN	31 JAN 66	

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INTER-NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY		NOTES
DESIGNATION	NAME			NUMBER				DECAY		
1966-007A				1968	US		02 FEB	27 FEB	66	
1966-009A				1997	US		09 FEB	26 SEP	69	
1966-009B				2003	US		09 FEB	18 NOV	66	
1966-009C				2004	US		09 FEB	18 NOV	66	
1966-010A	COSMOS 107			1998	USSR		10 FEB	18 FEB	66	
1966-010B				2000	USSR		10 FEB	28 FEB	66	
1966-010C				2005	USSR		10 FEB	12 FEB	66	
1966-010D				2006	USSR		10 FEB	21 NOV	66	
1966-011A				2002	USSR		11 FEB	12 FEB	66	
1966-011B	COSMOS 108			2007	USSR		11 FEB	01 JUN	66	
1966-011C				2008	USSR		11 FEB	27 MAR	66	
1966-012A				2012	US		15 FEB	22 FEB	66	
1966-012B				2014	US		15 FEB	16 FEB	66	
1966-012C				2015	US		15 FEB	22 FEB	66	
1966-012D				2025	US		15 FEB	18 FEB	66	
1966-012E				2026	US		15 FEB	17 FEB	66	
1966-012F				2027	US		15 FEB	17 FEB	66	
1966-012G				2028	US		15 FEB	18 FEB	66	
1966-012H				2029	US		15 FEB	19 FEB	66	
1966-012J				2030	US		15 FEB	19 FEB	66	
1966-012K				2031	US		15 FEB	20 FEB	66	
1966-012L				2032	US		15 FEB	17 FEB	66	
1966-012M				2033	US		15 FEB	18 FEB	66	
1966-012N				2034	US		15 FEB	19 FEB	66	
1966-012P				2035	US		15 FEB	17 FEB	66	
1966-012Q				2036	US		15 FEB	20 FEB	66	
1966-012R				2037	US		15 FEB	18 FEB	66	
1966-012S				2038	US		15 FEB	19 FEB	66	
1966-012T				2039	US		15 FEB	16 FEB	66	
1966-012U				2040	US		15 FEB	18 FEB	66	
1966-012V				2056	US		15 FEB	20 FEB	66	
1966-012W				2057	US		15 FEB	21 FEB	66	
1966-012X				2058	US		15 FEB	18 FEB	66	
1966-012Y				2059	US		15 FEB	18 FEB	66	
1966-012Z				2060	US		15 FEB	19 FEB	66	
1966-012AA				2061	US		15 FEB	22 FEB	66	
1966-012AB				2062	US		15 FEB	17 FEB	66	
1966-012AC				2063	US		15 FEB	22 FEB	66	
1966-012AD				2064	US		15 FEB	19 FEB	66	
1966-012AE				2065	US		15 FEB	19 FEB	66	
1966-012AF				2066	US		15 FEB	17 FEB	66	
1966-012AG				2067	US		15 FEB	17 FEB	66	
1966-012AH				2068	US		15 FEB	20 FEB	66	
1966-012AJ				2069	US		15 FEB	18 FEB	66	
1966-012AK				2072	US		15 FEB	17 FEB	66	
1966-012AL				2073	US		15 FEB	18 FEB	66	
1966-012AM				2074	US		15 FEB	17 FEB	66	
1966-012AN				2075	US		15 FEB	19 FEB	66	
1966-012AP				2076	US		15 FEB	18 FEB	66	
1966-012AQ				2077	US		15 FEB	19 FEB	66	
1966-012AR				2078	US		15 FEB	19 FEB	66	
1966-013C				2018	FRANCE		17 FEB	05 DEC	67	

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INTER- NATIONAL DESIGNATION		DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966-013D			2020	FRANCE	17 FEB	11 SEP 67	
1966-013E			2021	FRANCE	17 FEB	25 AUG 67	
1966-013F			2023	FRANCE	17 FEB	16 JUL 91	
1966-013H			2993	FRANCE	17 FEB	01 MAR 68	
1966-013J			3970	FRANCE	17 FEB	28 MAY 81	
1966-013K			5420	FRANCE	17 FEB	22 NOV 82	
1966-013L			5959	FRANCE	17 FEB	21 NOV 78	
1966-013M			6784	FRANCE	17 FEB	15 MAR 74	
1966-013N			14844	FRANCE	17 FEB	08 NOV 88	
1966-013P			14845	FRANCE	17 FEB	23 APR 89	
1966-013Q			19049	FRANCE	17 FEB	22 JAN 89	
1966-014A	COSMOS 109		2019	USSR	19 FEB	27 FEB 66	
1966-014B			2022	USSR	19 FEB	27 FEB 66	
1966-014C			2024	USSR	19 FEB	21 FEB 66	
1966-015A	COSMOS 110		2070	USSR	22 FEB	16 MAR 66	C*
1966-015B			2071	USSR	22 FEB	29 APR 66	
1966-015C			2089	USSR	22 FEB	05 MAR 66	
1966-015D			2090	USSR	22 FEB	05 MAR 66	
1966-017A	COSMOS 111		2093	USSR	01 MAR	03 MAR 66	
1966-017B			2094	USSR	01 MAR	01 MAR 66	
1966-017C			2095	USSR	01 MAR	02 MAR 66	
1966-018A			2099	US	09 MAR	29 MAR 66	
1966-018B			2113	US	09 MAR	22 MAR 66	
1966-019A	AGENA TARGET VEHICLE GEMINI 8		2104	US	16 MAR	15 SEP 67	F*
1966-020A			2105	US	16 MAR	17 MAR 66	
1966-020B			2106	US	16 MAR	17 MAR 66	
1966-020C			2115	US	16 MAR	18 APR 66	
1966-021A	COSMOS 112		2107	USSR	17 MAR	25 MAR 66	
1966-021B			2108	USSR	17 MAR	17 MAY 66	
1966-021C			2110	USSR	17 MAR	25 MAR 66	
1966-021D			2111	USSR	17 MAR	25 MAR 66	
1966-022A			2109	US	18 MAR	24 MAR 66	
1966-022B			2112	US	18 MAR	23 MAR 66	
1966-023A	COSMOS 113		2114	USSR	21 MAR	29 MAR 66	
1966-023B			2116	USSR	21 MAR	30 MAR 66	
1966-023C			2117	USSR	21 MAR	22 MAR 66	
1966-024C			2386	US	26 MAR	14 FEB 83	
1966-024D			3590	US	26 MAR	18 APR 78	
1966-024E			12856	US	26 MAR	20 JUL 88	
1966-025F			4007	US	30 MAR	12 APR 77	
1966-026C			2162	US	31 MAR	11 FEB 67	
1966-026E			2178	US	31 MAR	06 JAN 83	
1966-026F			2179	US	31 MAR	20 APR 93	
1966-027B			2127	USSR	31 MAR	04 APR 66	
1966-027C			2128	USSR	31 MAR	02 APR 66	
1966-028A	COSMOS 114		2133	USSR	06 APR	14 APR 66	
1966-028B			2134	USSR	06 APR	18 APR 66	
1966-028C			2135	USSR	06 APR	10 APR 66	
1966-028D			2137	USSR	06 APR	09 APR 66	
1966-028E			2138	USSR	06 APR	26 APR 66	
1966-029A			2136	US	07 APR	06 APR 66	
1966-030A	SURVEYOR MODULE		2139	US	08 APR	05 MAY 66	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966-030B		2143	US	08 APR	17 APR 66	
1966-031C		2145	US	08 APR	31 OCT 81	
1966-032A		2146	US	19 APR	26 APR 66	
1966-032B		2148	US	19 APR	22 APR 66	
1966-033A	COSMOS 115	2147	USSR	20 APR	28 APR 66	
1966-033B		2149	USSR	20 APR	30 APR 66	
1966-034C		2208	USSR	22 APR	05 DEC 76	
1966-034D		2209	US	22 APR	04 DEC 89	
1966-035A	MOLNIYA 1-3	2151	USSR	25 APR	11 JUN 73	
1966-035B		2155	USSR	25 APR	09 MAY 66	
1966-035C		2156	USSR	25 APR	08 MAY 66	
1966-035D		2157	USSR	25 APR	29 APR 66	
1966-035E		2160	USSR	25 APR	29 APR 66	
1966-035F		3222	USSR	25 APR	18 JUN 73	
1966-036A	COSMOS 116	2152	USSR	26 APR	03 DEC 66	
1966-036B		2159	USSR	26 APR	15 AUG 66	
1966-037A	COSMOS 117	2163	USSR	06 MAY	14 MAY 66	
1966-037B		2164	USSR	06 MAY	21 MAY 66	
1966-037C		2165	USSR	06 MAY	07 MAY 66	
1966-037D		2166	USSR	06 MAY	08 MAY 66	
1966-037E		2170	USSR	06 MAY	16 MAY 66	
1966-038A	COSMOS 118	2168	USSR	11 MAY	23 NOV 88	
1966-038B		2169	USSR	11 MAY	12 JUL 89	
1966-039A		2171	US	14 MAY	21 MAY 66	
1966-039B		2172	US	14 MAY	27 OCT 70	
1966-039C		2175	US	14 MAY	17 MAY 66	
1966-042A		2181	US	24 MAY	09 JUN 66	
1966-043A	COSMOS 119	2182	USSR	24 MAY	30 NOV 66	
1966-044A	EXPLORER 32	2183	US	25 MAY	22 FEB 85	
1966-044B		2184	US	25 MAY	19 JUN 69	
1966-044C		2336	US	30 MAY	31 AUG 69	
1966-045A		2185	US	01 JUN	02 JUN 66	T*
1966-046A	SURVEYOR 1	2186	US	01 JUN	11 JUN 66	
1966-046B	ATDA	2188	US	01 JUN	22 JUN 66	U*
1966-046C		2189	US	01 JUN	05 JUN 66	
1966-046D		2190	US	01 JUN	30 JUN 66	
1966-046E		2228	US	01 JUN	30 JUN 66	
1966-046F		2229	US	01 JUN	30 JUN 66	
1966-046G		2230	US	01 JUN	30 JUN 66	
1966-046H		2231	US	01 JUN	30 JUN 66	
1966-046J		2232	US	01 JUN	21 JUN 66	
1966-046K		2233	US	01 JUN	23 JUN 66	
1966-046L		2234	US	01 JUN	23 JUN 66	
1966-046M		2235	US	01 JUN	22 JUN 66	
1966-046N		2236	US	01 JUN	22 JUN 66	
1966-046P		2237	US	01 JUN	22 JUN 66	
1966-046Q		2238	US	01 JUN	22 JUN 66	
1966-046R		2239	US	01 JUN	22 JUN 66	
1966-046S		2240	US	01 JUN	23 JUN 66	
1966-046T		2241	US	01 JUN	22 JUN 66	
1966-046U		2242	US	01 JUN	27 JUN 66	
1966-046V		2243	US	01 JUN	21 JUN 66	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966-046W		2244	US	01 JUN	23 JUN 66	
1966-046X		2245	US	01 JUN	22 JUN 66	
1966-046Y		2246	US	01 JUN	21 JUN 66	
1966-046Z		2247	US	01 JUN	21 JUN 66	
1966-046AA		2248	US	01 JUN	23 JUN 66	
1966-046AB		2249	US	01 JUN	04 JUL 66	
1966-046AC		2250	US	01 JUN	29 JUN 66	
1966-046AD		2251	US	01 JUN	25 JUN 66	
1966-046AE		2252	US	01 JUN	23 JUN 66	
1966-046AF		2264	US	01 JUN	04 JUL 66	
1966-046AG		2265	US	01 JUN	04 JUL 66	
1966-046AH		2266	US	01 JUN	04 JUL 66	
1966-046AJ		2267	US	01 JUN	04 JUL 66	
1966-046AK		2268	US	01 JUN	04 JUL 66	
1966-046AL		2269	US	01 JUN	04 JUL 66	
1966-046AM		2270	US	01 JUN	04 JUL 66	
1966-046AN		2271	US	01 JUN	04 JUL 66	
1966-046AP		2272	US	01 JUN	04 JUL 66	
1966-046AQ		2273	US	01 JUN	04 JUL 66	
1966-046AR		2274	US	01 JUN	04 JUL 66	
1966-046AS		2275	US	01 JUN	04 JUL 66	
1966-046AT		2276	US	01 JUN	04 JUL 66	
1966-046AU		2277	US	01 JUN	04 JUL 66	
1966-046AV		2278	US	01 JUN	04 JUL 66	
1966-046AW		2279	US	01 JUN	04 JUL 66	
1966-046AX		2280	US	01 JUN	04 JUL 66	
1966-046AY		2281	US	01 JUN	04 JUL 66	
1966-046AZ		2282	US	01 JUN	04 JUL 66	
1966-046BA		2283	US	01 JUN	04 JUL 66	
1966-046BB		2284	US	01 JUN	04 JUL 66	
1966-046BC		2285	US	01 JUN	04 JUL 66	
1966-046BD		2286	US	01 JUN	04 JUL 66	
1966-046BE		2287	US	01 JUN	04 JUL 66	
1966-046BF		2288	US	01 JUN	04 JUL 66	
1966-047A	GEMINI 9	2191	US	03 JUN	06 JUN 66	
1966-047B		2193	US	03 JUN	04 JUN 66	
1966-048A		2192	US	03 JUN	09 JUN 66	
1966-048B		2194	US	03 JUN	09 JUN 66	
1966-050A	COSMOS 120	2196	USSR	08 JUN	16 JUN 66	
1966-050B		2197	USSR	08 JUN	12 JUN 66	
1966-050C		2198	USSR	08 JUN	11 JUN 66	
1966-050D		2199	USSR	08 JUN	09 JUN 66	
1966-051A		2200	US	09 JUN	03 DEC 66	
1966-051B		2205	US	09 JUN	06 JUL 67	
1966-051C	SECOR (EGRS) 6	2202	US	09 JUN	12 MAR 67	
1966-054A	ERS 16	2210	USSR	17 JUN	25 JUN 66	
1966-054B	COSMOS 121	2211	USSR	17 JUN	26 JUN 66	
1966-054C		2212	USSR	17 JUN	19 JUN 66	
1966-054D		2213	USSR	17 JUN	20 JUN 66	
1966-054E		2214	USSR	17 JUN	20 JUN 66	
1966-055A		2227	US	21 JUN	14 JUL 66	
1966-055B		2261	US	21 JUN	04 JUL 66	

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INTER-NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY		NOTES
NAME	NAME									
1966-056E				8064	US		24 JUN	03 JAN 90		
1966-056F				8065	US		24 JUN	18 APR 78		
1966-056J				8075	US		24 JUN	19 FEB 77		V*
1966-056K				8076	US		24 JUN	04 SEP 84		
1966-056L				8077	US		24 JUN	01 APR 77		
1966-056M				8078	US		24 JUN	19 FEB 77		
1966-056N				8079	US		24 JUN	12 JAN 86		
1966-056P				8080	US		24 JUN	21 JAN 77		
1966-056Q				8081	US		24 JUN	22 MAY 77		
1966-056R				9452	US		24 JUN	08 MAR 77		
1966-056S				9453	US		24 JUN	13 APR 81		
1966-056T				9454	US		24 JUN	08 FEB 77		
1966-056U				9455	US		24 JUN	03 MAR 77		
1966-056V				9456	US		24 JUN	14 FEB 77		
1966-056W				9457	US		24 JUN	20 AUG 77		
1966-056X				9458	US		24 JUN	29 JUN 77		
1966-056Y				9459	US		24 JUN	02 JUL 77		
1966-056Z				9460	US		24 JUN	09 JAN 90		
1966-056AA				9461	US		24 JUN	16 DEC 77		
1966-056AB				9462	US		24 JUN	09 FEB 77		
1966-056AC				9463	US		24 JUN	13 APR 81		
1966-056AD				9464	US		24 JUN	22 AUG 80		
1966-056AE				9465	US		24 JUN	13 APR 81		
1966-056AF				9466	US		24 JUN	02 FEB 89		
1966-056AG				9467	US		24 JUN	18 APR 77		
1966-056AJ				9469	US		24 JUN	25 NOV 82		
1966-056AK				9739	US		24 JUN	20 JAN 77		
1966-056AL				9740	US		24 JUN	20 JAN 77		
1966-056AM				9741	US		24 JUN	20 JAN 77		
1966-056AN				9742	US		24 JUN	20 JAN 77		
1966-056AP				9743	US		24 JUN	20 JAN 77		
1966-056AQ				9744	US		24 JUN	20 JAN 77		
1966-056AR				9745	US		24 JUN	20 JAN 77		
1966-056AS				9746	US		24 JUN	20 JAN 77		
1966-056AT				9747	US		24 JUN	20 JAN 77		
1966-056AU				9748	US		24 JUN	20 JAN 77		
1966-056AV				9749	US		24 JUN	20 JAN 77		
1966-056AW				9750	US		24 JUN	20 JAN 77		
1966-056AX				9751	US		24 JUN	20 JAN 77		
1966-056AY				9752	US		24 JUN	20 JAN 77		
1966-056AZ				9753	US		24 JUN	20 JAN 77		
1966-056BA				9754	US		24 JUN	20 JAN 77		
1966-056BB				9755	US		24 JUN	20 JAN 77		
1966-056BC				9756	US		24 JUN	20 JAN 77		
1966-056BD				9757	US		24 JUN	20 JAN 77		
1966-056BE				9758	US		24 JUN	20 JAN 77		
1966-056BF				9759	US		24 JUN	20 JAN 77		
1966-056BG				9760	US		24 JUN	20 JAN 77		
1966-056BH				9761	US		24 JUN	20 JAN 77		
1966-056BJ				9762	US		24 JUN	20 JAN 77		
1966-056BK				9763	US		24 JUN	20 JAN 77		
1966-056BL				9764	US		24 JUN	20 JAN 77		

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966-056BM		9765	US	24 JUN	20 JAN 77	
1966-056BN		9766	US	24 JUN	20 JAN 77	
1966-056BP		9767	US	24 JUN	20 JAN 77	
1966-056BQ		9768	US	24 JUN	20 JAN 77	
1966-056BR		9769	US	24 JUN	20 JAN 77	
1966-056BS		9770	US	24 JUN	20 JAN 77	
1966-056BT		9771	US	24 JUN	20 JAN 77	
1966-056BU		9772	US	24 JUN	20 JAN 77	
1966-056BV		9773	US	24 JUN	20 JAN 77	
1966-056BW		9774	US	24 JUN	20 JAN 77	
1966-056BX		9775	US	24 JUN	20 JAN 77	
1966-056BY		9776	US	24 JUN	20 JAN 77	
1966-056BZ		9777	US	24 JUN	20 JAN 77	
1966-056CA		9778	US	24 JUN	20 JAN 77	
1966-056CB		9779	US	24 JUN	20 JAN 77	
1966-056CC		9780	US	24 JUN	20 JAN 77	
1966-056CD		9781	US	24 JUN	20 JAN 77	
1966-056CE		9782	US	24 JUN	20 JAN 77	
1966-056CF		9783	US	24 JUN	20 JAN 77	
1966-056CG		13795	US	24 JUN	25 APR 87	
1966-056CH		18641	US	24 JUN	20 DEC 89	
1966-056CJ		18672	US	24 JUN	13 FEB 90	
1966-056CK		18690	US	24 JUN	02 FEB 89	
COSMOS 122						
1966-057A		2254	USSR	25 JUN	14 NOV 89	
1966-057B		2257	USSR	25 JUN	20 JAN 84	
1966-058B		2259	US	01 JUL	17 NOV 66	
1966-058D		2262	US	01 JUL	07 SEP 66	
1966-058E		2263	US	01 JUL	29 AUG 66	
1966-059A	AS 203	2289	US	05 JUL	05 JUL 66	
1966-059B		2291	US	05 JUL	18 JUL 66	
1966-059C		2297	US	05 JUL	12 JUL 66	
1966-059D		2298	US	05 JUL	11 JUL 66	
1966-059E		2299	US	05 JUL	11 JUL 66	
1966-059F		2300	US	05 JUL	12 JUL 66	
1966-059G		2301	US	05 JUL	11 JUL 66	
1966-059H		2302	US	05 JUL	10 JUL 66	
1966-059I		2303	US	05 JUL	12 JUL 66	
1966-059J		2304	US	05 JUL	11 JUL 66	
1966-059K		2305	US	05 JUL	11 JUL 66	
1966-059L		2306	US	05 JUL	19 JUL 66	
1966-059M		2307	US	05 JUL	14 JUL 66	
1966-059N		2308	US	05 JUL	15 JUL 66	
1966-059P		2309	US	05 JUL	15 JUL 66	
1966-059Q		2310	US	05 JUL	19 JUL 66	
1966-059R		2311	US	05 JUL	16 JUL 66	
1966-059S		2312	US	05 JUL	15 JUL 66	
1966-059T		2313	US	05 JUL	15 JUL 66	
1966-059U		2314	US	05 JUL	16 JUL 66	
1966-059V		2315	US	05 JUL	16 JUL 66	
1966-059W		2316	US	05 JUL	16 JUL 66	
1966-059X		2317	US	05 JUL	17 JUL 66	
1966-059Y		2318	US	05 JUL	18 JUL 66	
1966-059Z						

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# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966-059AA		2319	US	05 JUL	20 JUL 66	
1966-059AB		2320	US	05 JUL	19 JUL 66	
1966-059AC		2321	US	05 JUL	18 JUL 66	
1966-059AD		2341	US	05 JUL	15 JUL 66	
1966-059AE		2342	US	05 JUL	20 JUL 66	
1966-059AF		2343	US	05 JUL	20 JUL 66	
1966-059AG		2344	US	05 JUL	20 JUL 66	
1966-059AH		2345	US	05 JUL	18 JUL 66	
1966-059AJ		2346	US	05 JUL	19 JUL 66	
1966-059AK		2347	US	05 JUL	19 JUL 66	
1966-059AL		2352	US	05 JUL	22 JUL 66	
1966-060A	PROTON 3	2290	USSR	06 JUL	16 SEP 66	
1966-060B		2293	USSR	06 JUL	21 AUG 66	
1966-060C		2294	USSR	06 JUL	19 JUL 66	
1966-060D		2292	USSR	06 JUL	11 JUL 66	
1966-061A	COSMOS 123	2295	USSR	08 JUL	10 DEC 66	
1966-061B		2296	USSR	08 JUL	02 OCT 66	
1966-062A		2322	US	12 JUL	20 JUL 66	
1966-062B		2323	US	12 JUL	14 JUL 66	
1966-063A	OV1-8	2324	US	14 JUL	04 JAN 78	
1966-064A	COSMOS 124	2325	USSR	14 JUL	22 JUL 66	
1966-064B		2326	USSR	14 JUL	19 JUL 66	
1966-064C		2330	USSR	14 JUL	17 JUL 66	
1966-064D		2331	USSR	14 JUL	16 JUL 66	
1966-064E		2332	USSR	14 JUL	19 JUL 66	
1966-065A	AGENA TARGET VEHICLE	2348	US	18 JUL	29 DEC 66	
1966-066A	GEMINI 10	2349	US	18 JUL	21 JUL 66	
1966-066B		2350	US	18 JUL	19 JUL 66	
1966-066C		2354	US	18 JUL	14 AUG 66	
1966-066D		2355	US	18 JUL	18 SEP 66	
1966-066E		2356	US	18 JUL	18 APR 67	
1966-066F		2357	US	18 JUL	15 OCT 66	
1966-066G		2358	US	18 JUL	12 AUG 66	
1966-066H		2382	US	18 JUL	20 OCT 66	
1966-066J		2383	US	18 JUL	17 JAN 67	
1966-066K		2388	US	18 JUL	26 FEB 67	
1966-067A	COSMOS 125	2351	USSR	20 JUL	02 AUG 66	
1966-068A	COSMOS 126	2358	USSR	28 JUL	06 AUG 66	
1966-068B		2369	USSR	28 JUL	30 AUG 66	
1966-068C		2370	USSR	28 JUL	30 JUL 66	
1966-069A		2376	US	28 JUL	06 AUG 66	
1966-070B		2404	US	04 AUG	03 JAN 92	
1966-070C		2521	US	04 AUG	30 JUN 74	
1966-071A	COSMOS 127	2391	USSR	08 AUG	16 AUG 66	
1966-071B		2392	USSR	08 AUG	12 AUG 66	
1966-072A		2393	US	09 AUG	11 SEP 66	
1966-073A	LUNAR ORBITER 1	2394	US	10 AUG	29 OCT 66	
1966-074A		2396	US	16 AUG	24 AUG 66	
1966-074B		2397	US	16 AUG	05 MAR 70	
1966-074C		2400	US	16 AUG	18 AUG 66	
1966-075B		2399	US	17 AUG	07 AUG 67	
1966-075D		2405	US	17 AUG	26 FEB 67	

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DECEASED OBJECTS		CATALOG	SOURCE	LAUNCH	DEATH	NOTES
INTER- NATIONAL DESIGNATION	NAME	NUMBER				
1966-075E		2572	US	17 AUG	09 MAR 67	
1966-076E		7558	US	18 AUG	02 SEP 81	
1966-076F		8000	US	18 AUG	11 SEP 81	
1966-076G		9401	US	18 AUG	25 MAR 82	
1966-078B		2407	USSR	24 AUG	25 AUG 66	
1966-078C		2408	USSR	24 AUG	26 AUG 66	
1966-079A		2409	USSR	27 AUG	04 SEP 66	
1966-079B	COSMOS 128	2410	USSR	27 AUG	07 SEP 66	
1966-080A		2414	US	12 SEP	30 DEC 66	F *
1966-081A	AGENA TARGET VEHICLE	2415	US	12 SEP	15 SEP 66	
1966-081B	GEMINI 11	2416	US	12 SEP	13 SEP 66	
1966-081C		2417	US	12 SEP	08 OCT 66	
1966-081D		2421	US	12 SEP	20 SEP 66	
1966-083A		2419	US	16 SEP	23 SEP 66	
1966-083B		2420	US	16 SEP	09 MAY 68	
1966-083C		2423	US	16 SEP	18 SEP 66	
1966-083D		2424	US	16 SEP	30 OCT 66	
1966-084A		2425	US	20 SEP	23 SEP 66	G *
1966-085A		2427	US	20 SEP	12 OCT 66	
1966-085B	SURVEYOR 2	2434	US	20 SEP	08 OCT 66	
1966-086A		2433	US	28 SEP	07 OCT 66	
1966-088A		2437	USSR	17 SEP	11 NOV 66	
1966-088B		2438	USSR	17 SEP	04 MAR 67	X *
1966-088C		2439	USSR	17 SEP	10 OCT 66	
1966-088D		2440	USSR	17 SEP	18 OCT 66	
1966-088E		2441	USSR	17 SEP	23 JUN 67	
1966-088F		2442	USSR	17 SEP	25 SEP 66	
1966-088G		2443	USSR	17 SEP	25 SEP 66	
1966-088H		2444	USSR	17 SEP	20 SEP 66	
1966-088J		2445	USSR	17 SEP	24 SEP 66	
1966-088K		2446	USSR	17 SEP	03 OCT 66	
1966-088L		2447	USSR	17 SEP	03 OCT 66	
1966-088M		2448	USSR	17 SEP	01 OCT 66	
1966-088N		2449	USSR	17 SEP	30 SEP 66	
1966-088P		2450	USSR	17 SEP	26 SEP 66	
1966-088R		2451	USSR	17 SEP	26 SEP 66	
1966-088R		2452	USSR	17 SEP	02 OCT 66	
1966-088S		2453	USSR	17 SEP	17 SEP 66	
1966-088T		2454	USSR	17 SEP	04 OCT 66	
1966-088U		2455	USSR	17 SEP	02 OCT 66	
1966-088V		2456	USSR	17 SEP	04 OCT 66	
1966-088W		2457	USSR	17 SEP	28 SEP 66	
1966-088X		2458	USSR	17 SEP	26 SEP 66	
1966-088Y		2459	USSR	17 SEP	30 SEP 66	
1966-088Z		2460	USSR	17 SEP	22 SEP 66	
1966-088AA		2461	USSR	17 SEP	24 SEP 66	
1966-088AB		2462	USSR	17 SEP	27 SEP 66	
1966-088AC		2463	USSR	17 SEP	26 SEP 66	
1966-088AD		2464	USSR	17 SEP	27 SEP 66	
1966-088AE		2465	USSR	17 SEP	25 SEP 66	
1966-088AF		2466	USSR	17 SEP	28 SEP 66	
1966-088AG		2467	USSR	17 SEP	26 SEP 66	



INTER-NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
NAME									
1966-088AH		2468	USSR	17 SEP	22 SEP 66				
1966-088AJ		2469	USSR	17 SEP	24 SEP 66				
1966-088AK		2470	USSR	17 SEP	24 SEP 66				
1966-088AL		2471	USSR	17 SEP	25 SEP 66				
1966-088AM		2472	USSR	17 SEP	25 SEP 66				
1966-088AN		2473	USSR	17 SEP	25 SEP 66				
1966-088AP		2474	USSR	17 SEP	27 SEP 66				
1966-088AQ		2475	USSR	17 SEP	23 SEP 66				
1966-088AR		2476	USSR	17 SEP	23 SEP 66				
1966-088AS		2477	USSR	17 SEP	27 SEP 66				
1966-088AT		2478	USSR	17 SEP	30 SEP 66				
1966-088AU		2479	USSR	17 SEP	27 SEP 66				
1966-088AV		2480	USSR	17 SEP	03 OCT 66				
1966-088AW		2482	USSR	17 SEP	25 SEP 66				
1966-088AX		2483	USSR	17 SEP	18 OCT 66				
1966-088AY		2484	USSR	17 SEP	08 OCT 66				
1966-088AZ		2485	USSR	17 SEP	09 FEB 67				
1966-088BA		2486	USSR	17 SEP	12 NOV 66				
1966-088BB		2487	USSR	17 SEP	21 OCT 66				
1966-088BC		2488	USSR	17 SEP	18 OCT 66				
1966-088BD		2506	USSR	17 SEP	10 OCT 66				
1966-088BE		2507	USSR	17 SEP	21 OCT 66				
1966-090A		2489	US	12 OCT	21 OCT 66				
1966-090B		2490	US	12 OCT	20 OCT 66				
1966-090C		2494	US	12 OCT	21 OCT 66				
1966-090D		2495	US	12 OCT	16 OCT 66				
1966-091A		2491	US	12 OCT	16 OCT 66				
1966-091B		2492	USSR	14 OCT	21 OCT 66				
1966-092A	COSMOS 129	2501	USSR	20 OCT	23 OCT 66				
1966-092B	MOLNIYA 1-4	2503	USSR	20 OCT	11 SEP 68				
1966-092C		2505	USSR	20 OCT	10 NOV 66				
1966-092D		3223	USSR	20 OCT	02 NOV 66				
1966-093A		2502	USSR	20 OCT	05 JUN 69				
1966-093B	COSMOS 130	2504	USSR	20 OCT	28 OCT 66				
1966-094B		2509	USSR	22 OCT	29 OCT 66				
1966-094C		2510	USSR	22 OCT	24 OCT 66				
1966-095A	AC 9	2512	US	22 OCT	23 OCT 66				
1966-096B		2515	US	26 OCT	06 NOV 66				
1966-097A	OV3-2	2517	US	26 OCT	09 FEB 67				
1966-097B		2519	US	28 OCT	29 SEP 71				
1966-097C		2613	US	28 OCT	28 JAN 70				
1966-097D		2614	US	28 OCT	20 SEP 67				
1966-098A		2523	US	02 NOV	20 AUG 76				
1966-098B		2525	US	02 NOV	10 NOV 66				
1966-099A		2524	US	02 NOV	16 NOV 66				
1966-099B		2526	US	02 NOV	09 JAN 67				
1966-099C		2527	US	02 NOV	05 JAN 67				
1966-099D		2528	US	02 NOV	31 DEC 66				
1966-100A	LUNAR ORBITER 2	2534	US	06 NOV	11 JAN 67				
1966-100B		2535	US	06 NOV	11 OCT 67				
1966-101A		2536	USSR	06 NOV	15 NOV 66				
1966-101B		2538	USSR	02 NOV	17 NOV 66				

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INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1966-101C			2539		USSR	02 NOV	15 NOV 66	
1966-101D			2540		USSR	02 NOV	13 NOV 66	
1966-101E			2541		USSR	02 NOV	29 NOV 66	
1966-101F			2542		USSR	02 NOV	21 NOV 66	
1966-101G			2543		USSR	02 NOV	06 MAY 67	
1966-101H			2544		USSR	02 NOV	29 NOV 66	
1966-101J			2545		USSR	02 NOV	17 NOV 66	
1966-101K			2546		USSR	02 NOV	08 NOV 66	
1966-101L			2547		USSR	02 NOV	12 NOV 66	
1966-101M			2548		USSR	02 NOV	29 NOV 66	
1966-101N			2549		USSR	02 NOV	08 NOV 66	
1966-101P			2550		USSR	02 NOV	24 NOV 66	
1966-101Q			2551		USSR	02 NOV	08 NOV 66	
1966-101R			2552		USSR	02 NOV	06 NOV 66	
1966-101S			2553		USSR	02 NOV	08 NOV 66	
1966-101T			2554		USSR	02 NOV	07 NOV 66	
1966-101U			2555		USSR	02 NOV	20 NOV 66	
1966-101V			2556		USSR	02 NOV	08 NOV 66	
1966-101W			2557		USSR	02 NOV	08 NOV 66	
1966-101X			2558		USSR	02 NOV	07 NOV 66	
1966-101Y			2559		USSR	02 NOV	09 NOV 66	
1966-101Z			2560		USSR	02 NOV	07 NOV 66	
1966-101AA			2561		USSR	02 NOV	07 NOV 66	
1966-101AB			2562		USSR	02 NOV	08 NOV 66	
1966-101AC			2563		USSR	02 NOV	08 NOV 66	
1966-101AD			2564		USSR	02 NOV	09 NOV 66	
1966-101AE			2570		USSR	02 NOV	22 NOV 66	
1966-101AF			2571		USSR	02 NOV	29 NOV 66	
1966-101AG			2575		USSR	02 NOV	11 NOV 66	
1966-101AH			2576		USSR	02 NOV	13 NOV 66	
1966-101AJ			2581		USSR	02 NOV	23 NOV 66	
1966-101AK			2582		USSR	02 NOV	14 NOV 66	
1966-101AL			2583		USSR	02 NOV	12 NOV 66	
1966-101AM			2584		USSR	02 NOV	14 NOV 66	
1966-101AN			2585		USSR	02 NOV	12 NOV 66	
1966-101AP			2586		USSR	02 NOV	12 NOV 66	
1966-101AQ			2587		USSR	02 NOV	16 NOV 66	
1966-101AR			2598		USSR	02 NOV	17 NOV 66	
1966-101AS			2931		USSR	02 NOV	26 APR 76	
1966-102A			2537		US	08 NOV	29 NOV 66	
1966-103A			2565		US	11 NOV	23 DEC 66	F *
1966-104A			2566		US	11 NOV	15 NOV 66	Z *
1966-104B			2567		US	11 NOV	12 NOV 66	
1966-104C			2577		US	11 NOV	15 NOV 66	
1966-104D			2578		US	11 NOV	15 NOV 66	
1966-104E			2579		US	11 NOV	16 NOV 66	
1966-104F			2588		US	11 NOV	04 DEC 66	
1966-104G			2589		US	11 NOV	01 DEC 66	
1966-104H			2590		US	11 NOV	18 NOV 66	
1966-104J			2591		US	11 NOV	18 NOV 66	
1966-104K			2592		US	11 NOV	18 NOV 66	
1966-104L			2593		US	11 NOV	18 NOV 66	

AGENA TARGET VEHICLE  
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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966-104M		2594	US	11 NOV	18 NOV 66	
1966-104N		2595	US	11 NOV	18 NOV 66	
1966-104P		2596	US	11 NOV	18 NOV 66	
1966-104Q		2597	US	11 NOV	18 NOV 66	
1966-105A	COSMOS 131	2568	USSR	12 NOV	20 NOV 66	
1966-105B		2569	USSR	12 NOV	22 NOV 66	
1966-105C		2633	US	12 NOV	30 DEC 66	
1966-106A	COSMOS 132 -	2599	USSR	19 NOV	27 NOV 66	Q*
1966-106B		2600	USSR	19 NOV	27 NOV 66	
1966-107A	COSMOS 133	2601	USSR	28 NOV	30 NOV 66	
1966-107B		2602	USSR	28 NOV	29 NOV 66	
1966-108A	COSMOS 134	2603	USSR	03 DEC	11 DEC 66	
1966-108B		2604	USSR	03 DEC	10 DEC 66	
1966-108C		2605	USSR	03 DEC	04 DEC 66	
1966-109A		2606	US	05 DEC	14 DEC 66	
1966-109B		2607	US	05 DEC	08 DEC 66	
1966-110B		2609	US	07 DEC	15 OCT 74	
1966-112A	COSMOS 135	2612	USSR	12 DEC	12 APR 67	
1966-112B		2615	USSR	12 DEC	15 MAR 67	
1966-112C		2616	USSR	12 DEC	28 DEC 66	
1966-112D		2617	USSR	12 DEC	28 DEC 66	
1966-112E		2708	USSR	12 DEC	28 MAY 67	
1966-113A		2618	US	14 DEC	24 DEC 66	
1966-114A	BIOSATELLITE 1	2632	US	14 DEC	15 FEB 67	
1966-114B		2623	US	14 DEC	22 JAN 67	
1966-114C		2619	US	14 DEC	10 JAN 67	
1966-114D		2631	US	14 DEC	10 JAN 67	
1966-115A	COSMOS 136	2624	USSR	19 DEC	27 DEC 66	
1966-115B		2625	USSR	19 DEC	28 DEC 66	
1966-116A	LUNA 13	2626	USSR	21 DEC	24 DEC 66	R*
1966-116B		2628	USSR	21 DEC	23 DEC 66	
1966-116C		2629	USSR	21 DEC	22 DEC 66	
1966-117A	COSMOS 137	2627	USSR	21 DEC	23 NOV 67	
1966-117B		2630	USSR	21 DEC	25 SEP 67	
1966-118A		2634	US	29 DEC	05 APR 69	
1966-118B		2635	US	29 DEC	23 MAR 67	
1966-118C		2636	US	29 DEC	23 MAR 67	
1967 LAUNCHES						
1967-001B		2640	US	11 JAN	13 APR 67	
1967-001C		2641	US	11 JAN	24 FEB 67	
1967-001E		4901	US	11 JAN	09 FEB 71	
1967-001F		5122	US	11 JAN	30 APR 72	
1967-001G		5123	US	11 JAN	06 OCT 71	
1967-001H		5245	US	11 JAN	17 JUN 71	
1967-001J		5269	US	11 JAN	29 OCT 78	
1967-001K		5333	US	11 JAN	14 OCT 71	
1967-001L		5735	US	11 JAN	09 MAR 73	
1967-001M		5766	US	11 JAN	20 JAN 72	
1967-001N		5951	US	11 JAN	26 JUN 73	
1967-001P		5960	US	11 JAN	26 JUN 73	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967-001Q			5961	US	11 JAN	26 JUN 73	
1967-001R			5969	US	11 JAN	14 SEP 75	
1967-001T			5988	US	11 JAN	29 JAN 93	
1967-001U			5989	US	11 JAN	07 NOV 76	
1967-001V			5990	US	11 JAN	14 OCT 92	
1967-001Z			13905	US	11 JAN	20 SEP 92	
1967-002A			2642	US	14 JAN	02 FEB 67	
1967-002B			2662	US	14 JAN	28 JAN 67	
1967-004A		COSMOS 138	2646	USSR	19 JAN	27 JAN 67	
1967-004B			2648	USSR	19 JAN	28 JAN 67	
1967-005A		COSMOS 139	2656	USSR	25 JAN	25 JAN 67	
1967-005B			2658	USSR	25 JAN	25 JAN 67	
1967-005C			2659	USSR	25 JAN	25 JAN 67	
1967-007A			2664	US	02 FEB	12 FEB 67	
1967-007B			2665	US	02 FEB	04 FEB 67	
1967-008A		LUNAR ORBITTER 3	2666	US	05 FEB	09 OCT 67	
1967-009A			2667	USSR	07 FEB	08 FEB 67	
1967-009B			2668	USSR	07 FEB	08 FEB 67	
1967-011C			2673	FRANCE	08 FEB	13 DEC 67	
1967-011D			2675	FRANCE	08 FEB	03 JAN 68	
1967-011E			2676	FRANCE	08 FEB	05 DEC 67	
1967-011F			2677	FRANCE	08 FEB	12 FEB 68	
1967-011G			2688	FRANCE	08 FEB	22 JUN 80	
1967-011H			2689	FRANCE	08 FEB	20 JUN 90	
1967-011J			2690	FRANCE	08 FEB	08 MAY 68	
1967-011K			2691	FRANCE	08 FEB	29 OCT 67	
1967-011L			2692	FRANCE	08 FEB	21 APR 89	
1967-011M			2900	FRANCE	08 FEB	23 MAY 80	
1967-011N			2990	FRANCE	08 FEB	07 FEB 80	
1967-011P			3742	FRANCE	08 FEB	27 AUG 80	
1967-011Q			4009	FRANCE	08 FEB	12 NOV 82	
1967-012A		COSMOS 141	2670	USSR	08 FEB	16 FEB 67	
1967-012B			2672	USSR	08 FEB	06 JUL 67	
1967-013A		COSMOS 142	2678	USSR	14 FEB	15 JUN 67	
1967-013B			2679	USSR	14 FEB	16 SEP 68	
1967-014D			2681	FRANCE	15 FEB	12 NOV 82	
1967-014E			2683	FRANCE	15 FEB	20 NOV 79	
1967-014G			3589	FRANCE	15 FEB	02 AUG 81	
1967-014H			3935	FRANCE	15 FEB	30 AUG 91	
1967-014K			14633	FRANCE	15 FEB	19 AUG 91	
1967-014L			15531	FRANCE	15 FEB	10 NOV 91	
1967-014P			18929	FRANCE	15 FEB	11 MAR 67	
1967-015A			2686	US	22 FEB	06 MAR 67	
1967-016A			2687	US	24 FEB	07 MAR 67	
1967-017A		COSMOS 143	2693	USSR	27 FEB	09 MAR 67	
1967-017B			2694	USSR	27 FEB	14 SEP 82	
1967-018A		COSMOS 144	2695	USSR	28 FEB	01 SEP 89	
1967-018B			2696	USSR	28 FEB	08 APR 71	
1967-018C			3095	USSR	28 FEB	08 MAR 68	
1967-019A		COSMOS 145	2697	USSR	03 MAR	01 DEC 67	
1967-019B			2698	USSR	03 MAR	04 APR 82	
1967-020A		OSO 3	2703	US	08 MAR		

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967-020B		2704	US	08 MAR	19 APR 70	
1967-020C		2987	US	08 MAR	30 JAN 70	
1967-021A	COSMOS 146	2705	USSR	10 MAR	18 MAR 67	
1967-021B		2709	USSR	10 MAR	19 MAR 67	
1967-021C		2815	USSR	10 MAR	11 MAR 67	
1967-022A	COSMOS 147	2710	USSR	13 MAR	21 MAR 67	
1967-022B		2711	USSR	13 MAR	22 MAR 67	
1967-023A	COSMOS 148	2712	USSR	16 MAR	07 MAY 67	
1967-023B		2713	USSR	16 MAR	14 APR 67	
1967-024A	COSMOS 149	2714	USSR	21 MAR	07 APR 67	
1967-024B		2716	USSR	21 MAR	24 MAR 67	
1967-024C		2724	USSR	21 MAR	26 MAR 67	
1967-024D		2725	USSR	21 MAR	26 MAR 67	
1967-024E		2726	USSR	21 MAR	27 MAR 67	
1967-024F		2727	USSR	21 MAR	27 MAR 67	
1967-024G		2728	USSR	21 MAR	27 MAR 67	
1967-024H		2729	USSR	21 MAR	12 APR 67	
1967-024J		2730	USSR	21 MAR	03 APR 67	
1967-024K		2731	USSR	21 MAR	03 APR 67	
1967-024L		2732	USSR	21 MAR	09 APR 67	
1967-024M		2733	USSR	21 MAR	28 MAR 67	
1967-024N		2734	USSR	21 MAR	28 MAR 67	
1967-024P		2737	USSR	21 MAR	28 MAR 67	
1967-024Q		2738	USSR	21 MAR	27 MAR 67	
1967-024R		2739	USSR	21 MAR	27 MAR 67	
1967-024S		2748	USSR	21 MAR	31 MAR 67	
1967-024T		2749	USSR	21 MAR	04 APR 67	
1967-025A	COSMOS 150	2715	USSR	22 MAR	30 MAR 67	
1967-025B		2718	USSR	22 MAR	30 MAR 67	
1967-026C		2719	US	23 MAR	07 JUL 67	
1967-027A	COSMOS 151	2720	USSR	23 MAR	20 JUN 81	
1967-027B		2721	USSR	24 MAR	06 MAY 91	
1967-027C		2776	USSR	24 MAR	03 JUL 88	
1967-027D		2797	USSR	24 MAR	12 NOV 67	
1967-028A	COSMOS 152	2722	USSR	24 MAR	12 OCT 70	
1967-028B		2723	USSR	25 MAR	05 AUG 67	
1967-029A		2736	US	25 MAR	22 MAY 67	
1967-030A	COSMOS 153	2740	USSR	30 MAR	17 APR 67	
1967-030B		2742	USSR	04 APR	12 APR 67	
1967-031A	ATS 2	2743	US	04 APR	11 APR 67	
1967-031B		2744	US	06 APR	02 SEP 69	
1967-032A	COSMOS 154	2745	USSR	06 APR	29 JUN 68	
1967-032B		2747	USSR	08 APR	10 APR 67	
1967-032C		2746	USSR	08 APR	09 APR 67	
1967-033A	COSMOS 155	2750	USSR	12 APR	19 APR 67	
1967-033B		2751	USSR	12 APR	20 APR 67	
1967-033C		2752	USSR	12 APR	16 APR 67	
1967-033D		2753	USSR	12 APR	13 APR 67	
1967-034F		6718	US	14 APR	16 APR 67	
1967-034G		7670	US	14 APR	06 MAR 80	
1967-035A	SURVEYOR 3	2756	US	17 APR	02 MAY 81	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967-037A		SOYUZ 1	2759	USSR	23 APR	24 APR 67	AD*
1967-037B			2760	USSR	23 APR	24 APR 67	
1967-038A		SAN MARCO 2	2761	ITALY	26 APR	14 OCT 67	
1967-038B			2771	US	26 APR	29 MAY 67	
1967-039A		COSMOS 156	2762	USSR	27 APR	23 OCT 89	
1967-039B			2763	USSR	27 APR	27 OCT 91	
1967-041A		LUNAR ORBITER 4	2772	US	04 MAY	06 OCT 67	G*
1967-042A		ARIEL 3	2773	UK	05 MAY	14 DEC 70	
1967-042B			2774	US	05 MAY	05 DEC 70	
1967-042C			2859	US	05 MAY	05 MAY 68	
1967-042D			2860	US	05 MAY	09 MAR 68	
1967-043A			2779	US	09 MAY	13 JUL 67	
1967-043B			2780	US	09 MAY	14 MAR 93	
1967-043C			2824	US	09 MAY	06 JUN 67	
1967-044A		COSMOS 157	2781	USSR	12 MAY	20 MAY 67	
1967-044B			2782	USSR	12 MAY	24 MAY 67	
1967-044C			2783	USSR	12 MAY	13 MAY 67	
1967-044D			2784	USSR	12 MAY	12 MAY 67	
1967-044E			2785	USSR	12 MAY	14 MAY 67	
1967-045C			2823	USSR	15 MAY	21 DEC 91	
1967-045D			3737	USSR	15 MAY	16 NOV 89	
1967-046A		COSMOS 159	2805	USSR	17 MAY	11 NOV 77	
1967-046B			2804	USSR	17 MAY	29 MAY 67	
1967-046C			2803	USSR	17 MAY	02 JUN 67	
1967-046D			2808	USSR	17 MAY	22 MAY 67	
1967-046E			2809	USSR	17 MAY	22 MAY 67	
1967-046F			2924	USSR	17 MAY	14 APR 78	
1967-047A		COSMOS 160	2806	USSR	17 MAY	18 MAY 67	
1967-047B			2810	USSR	17 MAY	18 MAY 67	
1967-048C			17723	US	18 MAY	03 FEB 92	
1967-048D			19222	US	18 MAY	09 JAN 93	
1967-049A		COSMOS 161	2812	USSR	22 MAY	30 MAY 67	
1967-049B			2814	USSR	22 MAY	28 MAY 67	
1967-050A			2813	US	22 MAY	30 MAY 67	
1967-050B			2816	US	22 MAY	27 MAY 67	
1967-051A		EXPLORER 34	2817	US	24 MAY	03 MAY 69	
1967-052A		MDLNIVA 1-5	2822	USSR	24 MAY	26 NOV 71	
1967-052B			2818	USSR	24 MAY	05 JUN 67	
1967-052C			2819	USSR	24 MAY	15 JUN 67	
1967-052D			2820	USSR	24 MAY	28 MAY 67	
1967-052E			2821	USSR	24 MAY	28 MAY 67	
1967-052F			3224	USSR	24 MAY	16 DEC 71	
1967-052G			5439	USSR	01 JUN	09 JUN 67	
1967-054A		COSMOS 162	2827	USSR	01 JUN	04 JUN 67	
1967-054B			2829	USSR	01 JUN	02 JUN 67	
1967-054C			2830	USSR	01 JUN	12 JUN 67	
1967-054D			2831	US	04 JUN	06 JUN 67	
1967-055A			2835	US	04 JUN	06 JUN 67	
1967-055B		COSMOS 163	2832	USSR	05 JUN	11 OCT 67	
1967-056A			2833	USSR	05 JUN	12 SEP 67	
1967-056B			2836	USSR	08 JUN	14 JUN 67	
1967-057A		COSMOS 164	2837	USSR	08 JUN	17 JUN 67	
1967-057B							

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967-057C	VENERA 4	2838	USSR	08 JUN	09 JUN 67	N*
1967-058A		2840	USSR	12 JUN	18 OCT 67	
1967-058B		2841	USSR	12 JUN	13 JUN 67	
1967-058C		2839	USSR	12 JUN	13 JUN 67	
1967-058D	COSMOS 165	2844	USSR	12 JUN	12 JUN 67	
1967-059A		2842	USSR	12 JUN	13 JUN 67	
1967-059B		2843	USSR	12 JUN	15 JAN 68	
1967-061A	COSMOS 166	2848	USSR	12 JUN	01 NOV 67	
1967-061B		2849	USSR	16 JUN	25 OCT 67	
1967-062A		2850	USSR	16 JUN	11 OCT 67	
1967-062B	COSMOS 167	2851	US	16 JUN	20 JUL 67	
1967-063A		2852	USSR	16 JUN	22 OCT 68	
1967-063B		2853	USSR	17 JUN	25 JUN 67	
1967-063C		2856	USSR	17 JUN	21 JUN 67	
1967-063D		2854	USSR	17 JUN	26 JUN 67	
1967-063E		2855	USSR	17 JUN	18 JUN 67	
1967-063F		2857	USSR	17 JUN	19 JUN 67	
1967-064A		2858	USSR	17 JUN	28 JUN 67	
1967-067A	COSMOS 168	2858	US	20 JUN	30 JUN 67	
1967-067B		2869	USSR	04 JUL	12 JUL 67	
1967-067C		2870	USSR	04 JUL	08 JUL 67	
1967-067D	SURVEYOR 4	2871	USSR	04 JUL	08 JUL 67	G*
1967-068A		2875	US	14 JUL	17 JUL 67	
1967-069A		2878	USSR	17 JUL	17 JUL 67	
1967-069B		2879	USSR	17 JUL	18 JUL 67	
1967-069D	COSMOS 169	2880	USSR	17 JUL	18 JUL 67	
1967-069E		2881	USSR	17 JUL	18 JUL 67	
1967-069F		2882	USSR	17 JUL	18 JUL 67	
1967-070B		2885	USSR	17 JUL	18 JUL 67	
1967-071A		2885	US	19 JUL	31 AUG 67	
1967-071B		2890	US	25 JUL	05 JUN 69	
1967-071C		2891	US	25 JUL	21 AUG 67	
1967-071D		2892	US	25 JUL	16 OCT 67	
1967-072A	OV1-86	2978	US	25 JUL	17 OCT 67	
1967-072B		2893	US	27 JUL	22 FEB 72	
1967-072C		2894	US	27 JUL	15 NOV 70	
1967-072D	OV1-12	2897	US	27 JUL	02 MAY 77	
1967-072E		2901	US	27 JUL	22 JUL 80	
1967-073A		2918	US	27 JUL	02 NOV 67	
1967-073B	OGO 4	2895	US	28 JUL	16 AUG 72	
1967-074A		2896	US	28 JUL	15 MAY 74	
1967-074B		2902	USSR	31 JUL	31 JUL 67	
1967-074C	COSMOS 170	2903	USSR	31 JUL	01 AUG 67	
1967-074D		2904	USSR	31 JUL	01 AUG 67	
1967-074E		2905	USSR	31 JUL	02 AUG 67	
1967-075A	LUNAR ORBITER 5	2906	USSR	31 JUL	01 AUG 67	G*
1967-076A		2907	US	01 AUG	31 JAN 68	
1967-076B		2910	US	07 AUG	01 SEP 67	
1967-077A	COSMOS 171	2923	US	07 AUG	25 AUG 67	
1967-077B		2911	USSR	08 AUG	08 AUG 67	
1967-077C		2912	USSR	08 AUG	09 AUG 67	
1967-077D		2913	USSR	08 AUG	09 AUG 67	
1967-077E		2915	USSR	08 AUG	08 AUG 67	
		2916	USSR	08 AUG	09 AUG 67	

INTER- NATIONAL DESIGNATION			DECEAYED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
NAME														
1967-078A	COSMOS 172	2914	USSR	09 AUG	17 AUG 67									
1967-078B		2917	USSR	09 AUG	13 AUG 67									
1967-079A		2919	US	16 AUG	29 AUG 67									
1967-081A	COSMOS 173	2921	USSR	24 AUG	17 DEC 67									
1967-081B		2922	USSR	24 AUG	30 OCT 67									
1967-082A	COSMOS 174	2925	USSR	31 AUG	30 DEC 68									
1967-082B		2926	USSR	31 AUG	15 SEP 67									
1967-082C		2927	USSR	31 AUG	19 SEP 67									
1967-082D		2928	USSR	31 AUG	05 SEP 67									
1967-083A	BIOSATELLITE 2	2935	US	07 SEP	04 OCT 67									
1967-083A	CAPSULE	61015	US	07 SEP	09 SEP 67									
1967-083B		2936	US	07 SEP	19 JAN 68									
1967-083B		2937	US	08 SEP	11 SEP 67									T*
1967-084A	SURVEYOR 5	2939	USSR	11 SEP	19 SEP 67									
1967-085A	COSMOS 175	2941	USSR	11 SEP	23 SEP 67									
1967-085B		2943	USSR	11 SEP	13 SEP 67									
1967-085C		2942	USSR	12 SEP	03 MAR 68									
1967-086A	COSMOS 176	2945	USSR	12 SEP	12 DEC 67									
1967-086B		2944	USSR	12 SEP	04 OCT 67									
1967-086C		2946	USSR	12 SEP	21 SEP 67									
1967-086D		2956	USSR	12 SEP	06 APR 68									
1967-086E		2957	USSR	12 SEP	12 MAR 75									
1967-086F		2958	USSR	12 SEP	02 APR 68									
1967-086G		2959	USSR	12 SEP	03 OCT 67									
1967-086H		2960	USSR	12 SEP	06 OCT 67									
1967-086J		2961	USSR	12 SEP	13 JAN 68									
1967-086K		2979	USSR	12 SEP	04 NOV 67									
1967-086L		2983	USSR	12 SEP	31 OCT 67									
1967-086M		2984	USSR	12 SEP	04 OCT 67									
1967-087A		2946	US	15 SEP	24 SEP 67									
1967-088A	COSMOS 177	2947	USSR	16 SEP	19 SEP 67									
1967-088A		2948	USSR	16 SEP	19 SEP 67									
1967-088B		2951	USSR	19 SEP	19 SEP 67									
1967-089A	COSMOS 178	2953	USSR	19 SEP	20 SEP 67									
1967-089B		2954	USSR	19 SEP	19 SEP 67									
1967-089C		2955	USSR	19 SEP	19 SEP 67									
1967-089D		2955	USSR	19 SEP	19 SEP 67									
1967-090A		2952	US	19 SEP	30 SEP 67									
1967-091A	COSMOS 179	2962	USSR	22 SEP	22 SEP 67									
1967-091A		2963	USSR	22 SEP	23 SEP 67									
1967-091B		2964	USSR	22 SEP	22 SEP 67									
1967-091C		2964	USSR	22 SEP	22 SEP 67									
1967-092E		12554	US	25 SEP	20 MAR 89									
1967-092E		12555	US	25 SEP	02 FEB 89									
1967-092F		17176	US	25 SEP	03 OCT 91									
1967-092G		20009	US	25 SEP	12 SEP 91									
1967-092H		20009	US	25 SEP	26 SEP 91									
1967-092J		20652	US	25 SEP	04 OCT 67									
1967-093A	COSMOS 180	2966	USSR	26 SEP	05 OCT 67									
1967-093B		2968	USSR	25 SEP	05 OCT 67									
1967-094B		2970	US	28 SEP	26 DEC 67									
1967-094D		2972	US	28 SEP	27 OCT 67									
1967-095A	MOLNIYA 1-6	2973	USSR	03 OCT	04 MAR 69									
1967-095B		2974	USSR	03 OCT	17 OCT 67									
1967-095C		2975	USSR	03 OCT	21 OCT 67									
1967-095D		3225	USSR	03 OCT	10 FEB 69									



# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967-097A	COSMOS 181	2981	USSR	11 OCT	19 OCT 67	
1967-097B		2982	USSR	11 OCT	19 OCT 67	
1967-098A	COSMOS 182	2995	USSR	16 OCT	24 OCT 67	
1967-098B		2996	USSR	16 OCT	24 OCT 67	
1967-098C		2999	USSR	16 OCT	24 OCT 67	
1967-099A	COSMOS 183	3001	USSR	18 OCT	18 OCT 67	
1967-099B		3002	USSR	18 OCT	19 OCT 67	
1967-099C		3003	USSR	18 OCT	18 OCT 67	
1967-100A	OSO 4	3000	US	18 OCT	15 JUN 82	
1967-100B		3004	US	18 OCT	02 MAY 80	
1967-101A	MLN1YA 1-7	3008	USSR	22 OCT	31 DEC 69	
1967-101B		3005	USSR	22 OCT	07 NOV 67	
1967-101C		3006	USSR	22 OCT	03 NOV 67	
1967-101D		3007	USSR	22 OCT	28 OCT 67	
1967-101E		3009	USSR	22 OCT	27 OCT 67	
1967-101F		3226	USSR	22 OCT	16 JAN 70	
1967-102A		3010	USSR	24 OCT	02 APR 89	
1967-102B	COSMOS 184	3011	USSR	24 OCT	19 DEC 91	
1967-103A		3012	US	25 OCT	05 NOV 67	
1967-104A	COSMOS 185	3013	USSR	27 OCT	14 JAN 69	
1967-105A	COSMOS 186	3014	USSR	27 OCT	31 OCT 67	
1967-105B		3015	USSR	27 OCT	29 OCT 67	
1967-106A	COSMOS 187	3016	USSR	28 OCT	28 OCT 67	
1967-106B		3017	USSR	28 OCT	28 OCT 67	
1967-106C		3018	USSR	28 OCT	28 OCT 67	
1967-107A	COSMOS 188	3020	USSR	30 OCT	02 NOV 67	
1967-107B		3021	USSR	30 OCT	02 NOV 67	
1967-108A	COSMOS 189	3023	USSR	30 OCT	07 MAR 80	
1967-108B		3028	USSR	30 OCT	18 JUN 68	
1967-108C		3041	USSR	30 OCT	23 DEC 67	
1967-108E		3042	USSR	30 OCT	24 JUN 68	
1967-108F		6362	USSR	30 OCT	27 FEB 74	
1967-108G		6696	USSR	30 OCT	27 FEB 74	
1967-108H		6697	USSR	30 OCT	29 MAR 77	
1967-108J		6698	USSR	30 OCT	13 MAY 74	
1967-108K		6699	USSR	30 OCT	29 MAR 74	
1967-109A		6701	USSR	30 OCT	10 FEB 74	
1967-109B		3024	US	02 NOV	02 DEC 67	
1967-110A	COSMOS 190	3025	US	02 NOV	28 MAR 69	
1967-110B		3026	USSR	03 NOV	11 NOV 67	
1967-111B		3027	USSR	03 NOV	09 NOV 67	
1967-112A	SURVEYOR 6	3031	US	07 NOV	08 AUG 68	
1967-113A	APOLLO 4	3032	US	09 NOV	10 NOV 67	
1967-113B		3033	US	09 NOV	09 NOV 67	
1967-115A	COSMOS 191	3043	US	21 NOV	02 MAR 68	
1967-115B		3044	USSR	21 NOV	14 JAN 68	
1967-117A	COSMOS 193	3052	USSR	25 NOV	03 DEC 67	
1967-117B		3053	USSR	25 NOV	01 DEC 67	
1967-118A	WRESAT	3054	AUSTRAL	29 NOV	10 JAN 68	
1967-119A	COSMOS 194	3055	USSR	03 DEC	11 DEC 67	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967-119B	OV3-6	3056	USSR	03 DEC	09 DEC 67	
1967-120A		3057	US	05 DEC	09 MAR 69	
1967-120B		3059	US	05 DEC	08 APR 68	
1967-120C		3060	US	05 DEC	18 JUN 68	
1967-120D		3061	US	05 DEC	25 DEC 67	
1967-120E	TATS 1	3062	US	05 DEC	27 MAR 68	
1967-121A		3058	US	05 DEC	16 DEC 67	
1967-122A		3063	US	09 DEC	25 DEC 67	
1967-123B		3067	US	13 DEC	28 APR 68	
1967-123C		3068	US	13 DEC	01 APR 68	
1967-123D	COSMOS 195	3069	US	13 DEC	12 FEB 68	
1967-123E		3070	US	13 DEC	12 FEB 68	
1967-124A		3071	USSR	16 DEC	24 DEC 67	
1967-124B		3072	USSR	16 DEC	23 DEC 67	
1967-124C		3073	USSR	16 DEC	18 DEC 67	
1967-125A	COSMOS 196	3074	USSR	19 DEC	07 JUL 68	
1967-125B		3075	USSR	19 DEC	20 FEB 68	
1967-125C		3076	USSR	19 DEC	07 JAN 68	
1967-125D		3077	USSR	19 DEC	07 JAN 68	
1967-125E		3078	USSR	19 DEC	07 JAN 68	
1967-126A	COSMOS 197	3079	USSR	26 DEC	30 JAN 68	
1967-126B		3080	USSR	26 DEC	08 JAN 68	
1967-126C		3083	USSR	26 DEC	10 JAN 68	
1967-126D		3084	USSR	26 DEC	05 JAN 68	
1967-126E		3085	USSR	26 DEC	18 JAN 68	
1967-126F		3086	USSR	26 DEC	26 JAN 68	
1967-126G		3087	USSR	26 DEC	03 JAN 68	
1967-126H		3089	USSR	26 DEC	30 DEC 67	
1967-126J		3090	USSR	26 DEC	30 DEC 67	
1967-127B		3082	USSR	27 DEC	21 JAN 68	
1967-127C		3088	USSR	27 DEC	31 DEC 67	
1968 LAUNCHES						
1968-001A	SURVEYOR 7	3091	US	07 JAN	10 JAN 68	
1968-003A		3099	USSR	16 JAN	01 FEB 68	
1968-003B		3096	USSR	16 JAN	25 JAN 68	
1968-003C		3115	USSR	16 JAN	30 JAN 68	
1968-003D		3117	USSR	16 JAN	03 FEB 68	
1968-004A		3097	US	17 JAN	07 JUL 70	
1968-004B		3101	US	17 JAN	29 MAR 68	
1968-004C		3116	US	17 JAN	22 MAR 68	
1968-005A		3098	US	18 JAN	04 FEB 68	
1968-006A		3100	USSR	19 JAN	24 FEB 73	
1968-006B	COSMOS 200	3102	USSR	19 JAN	04 FEB 72	
1968-006C		3103	USSR	19 JAN	30 SEP 80	
1968-006D		3104	USSR	19 JAN	06 APR 68	
1968-006E		3109	USSR	19 JAN	11 APR 68	
1968-006F		3110	USSR	19 JAN	16 JUN 68	
1968-006G	LM-1/ASCENT	3111	USSR	19 JAN	15 APR 68	
1968-006H		3112	USSR	19 JAN	16 JUN 68	
1968-007A		3106	US	22 JAN	24 JAN 68	

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# DECAVED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968-007B	LM-1/DESCENT	3107	US	22 JAN	12 FEB 68	
1968-007C		3108	US	22 JAN	23 JAN 68	
1968-008A		3113	US	24 JAN	27 FEB 68	
1968-008B		3114	US	24 JAN	04 MAR 70	
1968-008C		3120	US	24 JAN	12 FEB 68	
1968-009A	COSMOS 201	3118	USSR	06 FEB	14 FEB 68	
1968-009B		3119	USSR	06 FEB	13 FEB 68	
1968-010A	COSMOS 202	3128	USSR	20 FEB	24 MAR 68	
1968-010B		3130	USSR	20 FEB	04 MAR 68	
1968-011C		3147	USSR	20 FEB	27 MAY 82	
1968-012E		18594	US	02 MAR	19 APR 91	
1968-013B		3135	USSR	02 MAR	07 MAR 68	
1968-013C		3136	USSR	02 MAR	07 MAR 68	
1968-013D	COSMOS 204	3144	USSR	02 MAR	05 MAR 68	
1968-015A		3139	USSR	05 MAR	13 OCT 68	
1968-015B		3143	USSR	05 MAR	13 OCT 68	
1968-016A	COSMOS 205	3140	USSR	05 MAR	09 MAR 68	
1968-016B		3142	USSR	05 MAR	16 NOV 90	
1968-017A	EXPLORER 37	3141	US	05 MAR	25 DEC 80	
1968-017B		3146	US	05 MAR	11 APR 69	
1968-017C		3215	US	05 MAR	08 SEP 91	
1968-017D		3328	US	05 MAR	25 OCT 77	
1968-017E		5743	US	05 MAR	24 MAR 68	
1968-018A		3148	US	13 MAR	22 APR 89	
1968-019A	COSMOS 206	3150	USSR	14 MAR	05 NOV 92	
1968-019B		3151	USSR	14 MAR	10 APR 68	
1968-020A		3152	US	14 MAR	03 JAN 70	
1968-020B		3153	US	16 MAR	24 MAR 68	
1968-021A	COSMOS 207	3154	USSR	16 MAR	22 MAR 68	
1968-021B		3155	USSR	21 MAR	02 APR 68	
1968-022A	COSMOS 208	3156	USSR	21 MAR	25 MAR 68	
1968-022B		3157	USSR	21 MAR	06 APR 68	
1968-022C		3160	USSR	22 MAR	29 MAR 68	
1968-023B		3161	USSR	22 MAR	25 MAR 68	
1968-023C		3162	USSR	22 MAR	10 APR 68	
1968-023D		3165	USSR	22 MAR	04 MAY 68	
1968-023E		3168	USSR	03 APR	11 APR 68	
1968-024A	COSMOS 210	3169	USSR	03 APR	12 APR 68	
1968-024B		3172	USSR	03 APR	05 APR 68	
1968-024C		3170	US	04 APR	04 APR 68	
1968-025A	APOLLO 6	3171	US	04 APR	25 APR 68	
1968-025B		3185	US	04 APR	28 APR 68	
1968-025C		3186	US	04 APR	05 MAY 68	
1968-025D		3187	US	04 APR	03 SEP 68	
1968-025E		3188	US	04 APR	29 APR 68	
1968-025F		3189	US	04 APR	20 APR 68	
1968-025G		3190	US	04 APR	17 APR 68	
1968-025H		3191	US	04 APR	17 APR 68	
1968-025J		3192	US	04 APR	17 APR 68	
1968-025K		3195	US	04 APR	01 MAY 68	
1968-025L		3196	US	04 APR	22 APR 68	
1968-025M						

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968-025N		3197	US	04 APR	16 APR 68	
1968-025P		3198	US	04 APR	17 APR 68	
1968-025Q		3200	US	04 APR	17 APR 68	
1968-025R		3201	US	04 APR	16 APR 68	
1968-025S		3202	US	04 APR	17 APR 68	
1968-027C		3179	USSR	07 APR	09 APR 68	
1968-027B		3180	USSR	07 APR	09 APR 68	
1968-028A	COSMOS 211	3181	USSR	09 APR	10 NOV 68	
1968-028B		3182	USSR	09 APR	17 AUG 68	
1968-029A	COSMOS 212	3183	USSR	14 APR	19 APR 68	
1968-029B		3184	USSR	14 APR	16 APR 68	
1968-030A	COSMOS 213	3193	USSR	15 APR	20 APR 68	
1968-030B		3194	USSR	15 APR	19 APR 68	
1968-031A		3199	US	17 APR	29 APR 68	
1968-032A	COSMOS 214	3203	USSR	18 APR	26 APR 68	
1968-032B		3204	USSR	18 APR	29 APR 68	
1968-033A	COSMOS 215	3205	USSR	18 APR	30 JUN 68	
1968-033B		3206	USSR	18 APR	19 MAY 68	
1968-034A	COSMOS 216	3207	USSR	20 APR	28 APR 68	
1968-034B		3208	USSR	20 APR	23 APR 68	
1968-035A	MOLNIYA 1-8	3209	USSR	21 APR	29 JAN 74	
1968-035B		3211	USSR	21 APR	11 MAY 68	
1968-035C		3210	USSR	21 APR	29 MAY 68	
1968-035D		3514	USSR	21 APR	09 JUL 74	
1968-036A	COSMOS 217	3216	USSR	24 APR	26 APR 68	
1968-037A	COSMOS 218	3217	USSR	25 APR	25 APR 68	
1968-037B		3219	USSR	25 APR	25 APR 68	
1968-037C		3218	USSR	25 APR	25 APR 68	
1968-038A	COSMOS 219	3220	USSR	26 APR	02 MAR 69	
1968-038B		3221	USSR	26 APR	24 FEB 69	
1968-038C		3227	USSR	26 APR	03 JUN 68	
1968-039A		3228	US	01 MAY	15 MAY 68	
1968-039B		3232	US	01 MAY	20 MAY 68	
1968-040C		3231	USSR	07 MAY	09 SEP 90	
1968-041A	IRIS	3233	ESRD	17 MAY	08 MAY 71	
1968-041B		3234	US	17 MAY	31 MAR 70	
1968-041C		3265	US	17 MAY	04 NOV 68	
1968-043A	COSMOS 221	3269	USSR	24 MAY	31 AUG 69	
1968-043B		3270	USSR	24 MAY	13 APR 69	
1968-044A	COSMOS 222	3272	USSR	30 MAY	11 OCT 68	
1968-044B		3273	USSR	30 MAY	13 AUG 68	
1968-045A	COSMOS 223	3274	USSR	01 JUN	09 JUN 68	
1968-045B		3275	USSR	01 JUN	09 JUN 68	
1968-046A	COSMOS 224	3276	USSR	04 JUN	12 JUN 68	
1968-046B		3277	USSR	04 JUN	07 JUN 68	
1968-047A		3278	US	05 JUN	17 JUN 68	
1968-048A	COSMOS 225	3279	USSR	11 JUN	02 NOV 68	
1968-048B		3280	USSR	11 JUN	15 AUG 68	
1968-048C		3281	USSR	11 JUN	19 JUN 68	
1968-048D		3293	USSR	11 JUN	21 JUN 68	
1968-049A	COSMOS 226	3282	USSR	12 JUN	18 OCT 83	
1968-049B		3283	USSR	12 JUN	26 JAN 91	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968-051A	COSMOS 227	3294	USSR	18 JUN	26 JUN 68	
1968-051B		3295	USSR	18 JUN	21 JUN 68	
1968-052A		3296	US	20 JUN	16 JUL 68	
1968-052B		3297	US	20 JUN	11 JAN 70	
1968-053A	COSMOS 228	3298	USSR	21 JUN	03 JUL 68	
1968-053B		3300	USSR	21 JUN	24 JUN 68	
1968-053C		3299	USSR	21 JUN	23 JUN 68	
1968-053D		3301	USSR	21 JUN	23 JUN 68	
1968-053E		3302	USSR	21 JUN	23 JUN 68	
1968-053F		3303	USSR	21 JUN	23 JUN 68	
1968-053G		3304	USSR	21 JUN	07 JUL 68	
1968-054A	COSMOS 229	3306	USSR	26 JUN	04 JUL 68	
1968-054B		3305	USSR	26 JUN	04 JUL 68	
1968-056A	COSMOS 230	3308	USSR	05 JUL	02 NOV 68	
1968-056B		3309	USSR	05 JUL	16 OCT 68	
1968-057A	MOLNIYA 1-9	3310	USSR	06 JUL	15 MAY 71	
1968-057B		3311	USSR	06 JUL	09 AUG 68	
1968-057C		3312	USSR	06 JUL	22 AUG 68	
1968-057D		3313	USSR	06 JUL	08 JUL 68	
1968-057E		3314	USSR	06 JUL	18 JUL 68	
1968-057F		3515	USSR	06 JUL	02 SEP 70	
1968-058A	COSMOS 231	3316	USSR	10 JUL	18 JUL 68	
1968-058B		3317	USSR	10 JUL	20 JUL 68	
1968-059A	OV1-15	3318	US	11 JUL	06 NOV 68	
1968-059B	OV1-16	3319	US	11 JUL	19 AUG 68	
1968-059C		3320	US	11 JUL	16 AUG 68	
1968-059D		3321	US	11 JUL	16 JUL 68	
1968-060A	COSMOS 232	3322	USSR	16 JUL	24 JUL 68	
1968-060B		3323	USSR	16 JUL	26 JUL 68	
1968-061A	COSMOS 233	3326	USSR	18 JUL	07 FEB 69	
1968-061B		3327	USSR	18 JUL	01 JAN 69	
1968-062A	COSMOS 234	3332	USSR	30 JUL	05 AUG 68	
1968-062B		3333	USSR	30 JUL	07 AUG 68	
1968-064A		3335	US	06 AUG	16 AUG 68	
1968-065A		3336	US	07 AUG	27 AUG 68	
1968-066A	EXPLORER 39	3337	US	08 AUG	22 JUN 81	
1968-067A	COSMOS 235	3339	USSR	09 AUG	17 AUG 68	
1968-067B		3340	USSR	09 AUG	14 AUG 68	
1968-068A	ATS 4	3344	US	10 AUG	17 OCT 68	
1968-070A	COSMOS 236	3347	USSR	27 AUG	04 MAR 90	
1968-070B		3349	USSR	27 AUG	08 OCT 82	
1968-071A	COSMOS 237	3348	USSR	27 AUG	04 SEP 68	
1968-071B		3350	USSR	27 AUG	04 SEP 68	
1968-072A	COSMOS 238	3351	USSR	28 AUG	01 SEP 68	
1968-072B		3352	USSR	28 AUG	30 AUG 68	
1968-073A	COSMOS 239	3353	USSR	05 SEP	13 SEP 68	
1968-073B		3354	USSR	05 SEP	09 SEP 68	
1968-074A		3375	US	10 SEP	25 SEP 68	
1968-075A	COSMOS 240	3388	USSR	14 SEP	21 SEP 68	
1968-075B		3389	USSR	14 SEP	17 SEP 68	
1968-076A	ZOND 5	3394	USSR	14 SEP	21 SEP 68	
1968-076B		3395	USSR	14 SEP	16 SEP 68	

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INTER-NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
NAME									
1968-076C		3396	USSR	14 SEP	18 SEP 68				
1968-076D		3397	USSR	14 SEP	16 SEP 68				
1968-077A	COSMOS 241	3398	USSR	16 SEP	24 SEP 68				
1968-077B		3399	USSR	16 SEP	22 SEP 68				
1968-078A		3408	US	18 SEP	08 OCT 68				
1968-078B		3409	US	18 SEP	28 SEP 69				
1968-079A	COSMOS 242	3414	USSR	20 SEP	13 NOV 68				
1968-079B		3415	USSR	20 SEP	22 OCT 68				
1968-080A	COSMOS 243	3418	USSR	23 SEP	04 OCT 68				
1968-080B		3419	USSR	23 SEP	29 SEP 68				
1968-080C		3452	USSR	23 SEP	12 OCT 68				
1968-081B	ERS 28	3429	US	26 SEP	15 FEB 71				
1968-081F		5999	US	26 SEP	14 MAR 75				
1968-082A	COSMOS 244	3449	USSR	02 OCT	02 OCT 68				
1968-082B		3451	USSR	02 OCT	03 OCT 68				
1968-082C		3450	USSR	02 OCT	02 OCT 68				
1968-083A	COSMOS 245	3457	USSR	03 OCT	15 JAN 69				
1968-083B		3458	USSR	03 OCT	16 NOV 68				
1968-084A	ESRD 1	3459	USSR	03 OCT	26 JUN 70				
1968-084B		3460	ESRD	03 OCT	13 AUG 69				
1968-084C		3479	US	03 OCT	12 APR 69				
1968-084D		3916	US	03 OCT	09 MAY 69				
1968-085A	MOLNIYA 1-10	3469	USSR	05 OCT	16 JUL 76				
1968-085B		3470	USSR	05 OCT	30 OCT 68				
1968-085C		3471	USSR	05 OCT	04 NOV 68				
1968-085D		3513	USSR	05 OCT	07 MAY 75				
1968-086A		3472	US	05 OCT	26 MAR 71				
1968-087A	COSMOS 246	3473	USSR	07 OCT	12 OCT 68				
1968-087B		3474	USSR	07 OCT	08 OCT 68				
1968-088A	COSMOS 247	3484	USSR	11 OCT	19 OCT 68				
1968-088B		3485	USSR	11 OCT	18 OCT 68				
1968-089A	APOLLO 7	3486	US	11 OCT	22 OCT 68				
1968-089B		3487	US	11 OCT	18 OCT 68				
1968-090A	COSMOS 248	3503	USSR	19 OCT	26 FEB 80				
1968-090B		3571	USSR	19 OCT	28 DEC 68				
1968-090C		3572	USSR	19 OCT	20 FEB 69				
1968-090D		3573	USSR	19 OCT	06 FEB 69				
1968-090E		3580	USSR	19 OCT	13 DEC 68				
1968-091B		3505	USSR	20 OCT	21 OCT 68				
1968-091D		3507	USSR	20 OCT	09 AUG 89				
1968-091H		3518	USSR	20 OCT	13 NOV 79				
1968-091J		3519	USSR	20 OCT	06 MAR 82				
1968-091K		3520	USSR	20 OCT	29 MAY 81				
1968-091N		3521	USSR	20 OCT	06 APR 74				
1968-091P		3525	USSR	20 OCT	19 OCT 81				
1968-091Q		3581	USSR	20 OCT	07 SEP 82				
1968-091T		3582	USSR	20 OCT	28 MAR 80				
1968-091U		3585	USSR	20 OCT	09 FEB 90				
1968-091W		3586	USSR	20 OCT	31 MAR 70				
1968-091Z		3588	USSR	20 OCT	05 MAY 69				
1968-091AB		3607	USSR	20 OCT	20 MAR 91				
1968-091AB		3609	USSR	20 OCT	26 DEC 82				

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INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1968-091AC			3677		USSR	20 OCT	29 MAY 80	
1968-091AD			3678		USSR	20 OCT	07 JUN 81	
1968-091AF			3680		USSR	20 OCT	09 JUN 81	
1968-091AG			3681		USSR	20 OCT	15 JUN 92	
1968-091AH			3682		USSR	20 OCT	14 DEC 77	
1968-091AK			3693		USSR	20 OCT	05 DEC 76	
1968-091AM			3697		USSR	20 OCT	03 JAN 78	
1968-091AP			3702		USSR	20 OCT	05 DEC 76	
1968-091AQ			3706		USSR	20 OCT	05 JUL 70	
1968-091AS			3754		USSR	20 OCT	21 MAY 75	
1968-091AW			3789		USSR	20 OCT	02 JUL 75	
1968-091AY			3791		USSR	20 OCT	29 JAN 90	
1968-091AZ			3792		USSR	20 OCT	13 APR 81	
1968-091BC			3795		USSR	20 OCT	21 MAY 80	
1968-091BD			3796		USSR	20 OCT	23 JAN 77	
1968-091BE			3797		USSR	20 OCT	10 DEC 88	
1968-091BF			3872		USSR	20 OCT	15 FEB 70	
1968-091BG			3873		USSR	20 OCT	03 NOV 89	
1968-091BJ			3875		USSR	20 OCT	27 MAY 81	
1968-091BK			3876		USSR	20 OCT	15 JUN 75	
1968-091BM			3909		USSR	20 OCT	16 MAR 75	
1968-091BN			3910		USSR	20 OCT	18 MAY 82	
1968-091BS			3934		USSR	20 OCT	24 AUG 77	
1968-091BT			3959		USSR	20 OCT	29 OCT 79	
1968-091BU			3960		USSR	20 OCT	26 NOV 78	
1968-091BV			3961		USSR	20 OCT	12 NOV 82	
1968-091BX			4002		USSR	20 OCT	03 AUG 70	
1968-091BZ			4500		USSR	20 OCT	12 DEC 70	
1968-091CC			5717		USSR	20 OCT	14 MAY 82	
1968-091CE			6045		USSR	20 OCT	06 MAR 81	
1968-091CH			6751		USSR	20 OCT	27 SEP 89	
1968-091CK			6764		USSR	20 OCT	27 OCT 79	
1968-091CP			14413		USSR	20 OCT	24 AUG 88	
1968-091CQ			14414		USSR	20 OCT	15 OCT 93	
1968-091CR			14415		USSR	20 OCT	12 APR 86	
1968-091CU			14429		USSR	20 OCT	12 DEC 89	
1968-091CW			15518		USSR	20 OCT	01 APR 88	
1968-091DB			15776		USSR	20 OCT	06 APR 86	
1968-091DC			17667		USSR	20 OCT	14 JUN 92	
1968-091DK			19476		USSR	20 OCT	01 OCT 88	
1968-091DM			19879		USSR	20 OCT	30 APR 89	
1968-091DP			20015		USSR	26 OCT	24 JUL 89	
1968-093A	SOYUZ 2		3511		USSR	25 OCT	28 OCT 68	
1968-093B			3512		USSR	25 OCT	27 OCT 68	
1968-093B	SOYUZ 3		3516		USSR	26 OCT	30 OCT 68	
1968-094B			3517		USSR	26 OCT	28 OCT 68	
1968-095A			3526		USSR	30 OCT	15 FEB 78	
1968-095B	COSMOS 250		3527		USSR	30 OCT	08 NOV 78	
1968-095C			3659		USSR	30 OCT	08 APR 69	
1968-095D			3660		USSR	30 OCT	05 MAY 69	
1968-095E			3661		USSR	30 OCT	17 APR 69	
1968-095F			3662		USSR	30 OCT	26 MAR 69	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968-095G		8780	USSR	30 OCT	17 OCT 76	
1968-096A	COSMOS 251	3528	USSR	31 OCT	18 NOV 68	
1968-096B		3529	USSR	31 OCT	02 NOV 68	
1968-096C		3540	USSR	31 OCT	16 NOV 68	
1968-096D		3541	USSR	31 OCT	13 NOV 68	
1968-097C		3550	USSR	01 NOV	08 MAY 88	
1968-097E		3552	USSR	01 NOV	06 JUL 89	
1968-097J		3556	USSR	01 NOV	20 NOV 82	
1968-097T		3567	USSR	01 NOV	02 MAR 82	
1968-097U		3568	USSR	01 NOV	19 APR 79	
1968-097W		3570	USSR	01 NOV	10 APR 82	
1968-097X		3593	USSR	01 NOV	09 OCT 81	
1968-097Y		3600	USSR	01 NOV	03 NOV 81	
1968-097Z		3601	USSR	01 NOV	30 JUN 80	
1968-097AA		3610	USSR	01 NOV	24 AUG 91	
1968-097AB		3684	USSR	01 NOV	28 MAR 82	
1968-097AC		3685	USSR	01 NOV	02 OCT 91	
1968-097AF		3688	USSR	01 NOV	15 SEP 78	
1968-097AG		3689	USSR	01 NOV	13 JUL 74	
1968-097AJ		3694	USSR	01 NOV	28 OCT 80	
1968-097AK		3696	USSR	01 NOV	10 MAR 70	
1968-097AM		3704	USSR	01 NOV	09 SEP 74	
1968-097AN		3711	USSR	01 NOV	22 APR 69	
1968-097AP		3712	USSR	01 NOV	26 FEB 73	
1968-097AR		3714	USSR	01 NOV	20 DEC 80	
1968-097AS		3715	USSR	01 NOV	14 DEC 76	
1968-097AT		3716	USSR	01 NOV	12 SEP 81	
1968-097AY		3786	USSR	01 NOV	21 DEC 79	
1968-097AZ		3787	USSR	01 NOV	12 NOV 82	
1968-097BB		3813	USSR	01 NOV	03 NOV 81	
1968-097BD		3815	USSR	01 NOV	04 OCT 69	
1968-097BE		3816	USSR	01 NOV	25 JUN 82	
1968-097BF		3817	USSR	01 NOV	07 DEC 82	
1968-097BJ		3897	USSR	01 NOV	02 JAN 82	
1968-097BP		3902	USSR	01 NOV	02 DEC 81	
1968-097BQ		3903	USSR	01 NOV	12 NOV 82	
1968-097BR		3904	USSR	01 NOV	24 OCT 79	
1968-097BT		3946	USSR	01 NOV	27 MAY 69	
1968-097BU		3953	USSR	01 NOV	13 APR 81	
1968-097BW		3979	USSR	01 NOV	02 JUL 71	
1968-097BX		3997	USSR	01 NOV	22 NOV 82	
1968-097BY		4010	USSR	01 NOV	10 SEP 69	
1968-097BZ		4011	USSR	01 NOV	12 NOV 82	
1968-097CA		4012	USSR	01 NOV	09 MAR 79	
1968-097CB		4013	USSR	01 NOV	16 OCT 80	
1968-097CC		4018	USSR	01 NOV	10 NOV 82	
1968-097CD		4024	USSR	01 NOV	06 SEP 91	
1968-097CE		4030	USSR	01 NOV	02 FEB 82	
1968-097CG		4031	USSR	01 NOV	30 JUL 82	
1968-097CH		5030	USSR	01 NOV	26 FEB 78	
1968-097CK		5223	USSR	01 NOV	02 MAY 83	
		5334	USSR	01 NOV	23 FEB 72	



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1968-097CM	5418	USSR	01 NOV	19 NOV 82	
1968-097CN	5460	USSR	01 NOV	29 OCT 83	
1968-097CP	5514	USSR	01 NOV	05 JAN 81	
1968-097CQ	5515	USSR	01 NOV	06 FEB 78	
1968-097CR	5516	USSR	01 NOV	10 OCT 79	
1968-097CS	5517	USSR	01 NOV	08 OCT 82	
1968-097CT	5518	USSR	01 NOV	20 NOV 76	
1968-097CU	5592	USSR	01 NOV	22 JUL 79	
1968-097CV	5594	USSR	01 NOV	25 NOV 78	
1968-097CX	5631	USSR	01 NOV	15 OCT 81	
1968-097CY	5632	USSR	01 NOV	09 MAR 73	
1968-097CZ	5749	USSR	01 NOV	12 OCT 76	
1968-097DA	5788	USSR	01 NOV	05 SEP 81	
1968-097DB	5789	USSR	01 NOV	21 SEP 89	
1968-097DC	5790	USSR	01 NOV	18 AUG 81	
1968-097DE	5827	USSR	01 NOV	19 NOV 82	
1968-097DF	5828	USSR	01 NOV	19 NOV 82	
1968-097DG	5829	USSR	01 NOV	31 MAR 78	
1968-097DH	5830	USSR	01 NOV	21 FEB 79	
1968-097DJ	5870	USSR	01 NOV	20 JUN 81	
1968-097DL	5872	USSR	01 NOV	16 FEB 90	
1968-097DM	5873	USSR	01 NOV	16 JUN 79	
1968-097DN	5874	USSR	01 NOV	25 OCT 79	
1968-097DP	5875	USSR	01 NOV	09 MAY 81	
1968-097DQ	5889	USSR	01 NOV	19 NOV 82	
1968-097DR	5890	USSR	01 NOV	01 MAR 77	
1968-097DS	5891	USSR	01 NOV	31 JAN 77	
1968-097DT	5966	USSR	01 NOV	03 JAN 77	
1968-097DU	6175	USSR	01 NOV	27 SEP 75	
1968-097DX	10394	USSR	01 NOV	09 APR 91	
1968-097DZ	14418	USSR	01 NOV	30 SEP 88	
1968-097EA	14419	USSR	01 NOV	15 FEB 89	
1968-097EC	14840	USSR	01 NOV	26 JAN 88	
1968-097EG	1536	USSR	01 NOV	04 JUL 93	
1968-097EH	1768	USSR	01 NOV	11 FEB 92	
1968-097EL	18488	USSR	01 NOV	19 JUL 90	
1968-097EM	18489	USSR	01 NOV	03 JAN 90	
1968-097EN	18490	USSR	01 NOV	25 JUL 90	
1968-097ER	18618	USSR	01 NOV	02 JAN 89	
1968-097EV	21749	USSR	01 NOV	29 MAR 92	
1968-098A	3531	US	03 NOV	23 NOV 68	
1968-099A	3532	US	06 NOV	20 NOV 68	
1968-100B	3534	US	08 NOV	19 SEP 79	
1968-100C	3546	US	08 NOV	06 OCT 71	
1968-100D	3547	US	08 NOV	13 APR 78	
1968-100E	3548	US	08 NOV	06 JAN 72	
1968-101A	3548	USSR	10 NOV	17 NOV 68	
1968-101B	3536	USSR	10 NOV	12 NOV 68	
1968-101C	3537	USSR	10 NOV	13 NOV 68	
1968-101D	3538	USSR	10 NOV	13 NOV 68	
1968-101E	3539	USSR	10 NOV	13 NOV 68	
1968-102A	3542	USSR	13 NOV	18 NOV 68	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968-102B		PROTON 4	3543	USSR	13 NOV	20 NOV 68	
1968-103A			3544	USSR	16 NOV	24 JUL 69	
1968-103B		COSMOS 254	3545	USSR	16 NOV	25 JAN 69	
1968-104A			3562	USSR	21 NOV	29 NOV 68	
1968-104B			3563	USSR	21 NOV	27 NOV 68	
1968-105A		COSMOS 255	3574	USSR	29 NOV	07 DEC 68	
1968-105B			3575	USSR	29 NOV	05 DEC 68	
1968-107A		COSMOS 257	3578	USSR	03 DEC	05 MAR 69	
1968-107B			3579	USSR	03 DEC	16 JAN 69	
1968-108A			3594	US	04 DEC	12 DEC 68	
1968-109A		HEOS-A1	3595	ESRO	05 DEC	28 OCT 75	
1968-109B			3596	US	05 DEC	27 DEC 68	
1968-111A		COSMOS 258	3602	USSR	10 DEC	18 DEC 68	
1968-111B			3603	USSR	10 DEC	17 DEC 68	
1968-112A			3604	US	12 DEC	28 DEC 68	
1968-113A		COSMOS 259	3612	USSR	14 DEC	05 MAY 69	
1968-113B			3613	USSR	14 DEC	10 MAY 69	
1968-113C			3614	USSR	14 DEC	13 MAY 69	
1968-115A		COSMOS 260	3619	USSR	16 DEC	09 JUL 73	
1968-115B			3620	USSR	16 DEC	06 FEB 69	
1968-115C			3621	USSR	16 DEC	18 JAN 69	
1968-115D			3622	USSR	16 DEC	21 SEP 73	
1968-116B			5978	US	19 DEC	26 JUN 73	
1968-117A		COSMOS 261	3624	USSR	19 DEC	12 FEB 69	
1968-117B			3625	USSR	19 DEC	07 JAN 69	
1968-117C			3628	USSR	19 DEC	06 JAN 69	
1968-117D			3631	USSR	19 DEC	01 FEB 69	
1968-117E			3632	USSR	19 DEC	22 JAN 69	
1968-117F			3633	USSR	19 DEC	17 FEB 69	
1968-117G			3634	USSR	19 DEC	18 AUG 69	
1968-117H			3635	USSR	19 DEC	15 MAR 69	
1968-117J			3636	USSR	19 DEC	01 FEB 69	
1968-117K			3637	USSR	19 DEC	22 JAN 69	
1968-117L			3638	USSR	19 DEC	13 FEB 69	
1968-117M			3639	USSR	19 DEC	02 MAY 69	
1968-117N			3640	USSR	19 DEC	10 FEB 69	
1968-117P			3641	USSR	19 DEC	07 MAY 69	
1968-117Q			3644	USSR	19 DEC	06 MAR 69	
1968-117R			3645	USSR	19 DEC	08 MAR 69	
1968-117S			3647	USSR	19 DEC	20 MAR 69	
1968-117T			3698	USSR	19 DEC	14 MAR 69	
1968-117U			3700	USSR	19 DEC	17 FEB 69	
1968-117V			3703	USSR	19 DEC	15 FEB 69	
1968-117W			3705	USSR	19 DEC	21 FEB 69	
1968-117X			3709	USSR	19 DEC	04 MAR 69	
1968-117Y			3710	USSR	19 DEC	04 MAR 69	
1968-117Z			3768	USSR	19 DEC	04 MAR 69	
1968-118A		APOLLO 8	3626	US	21 DEC	27 DEC 68	AG*
1968-119A		COSMOS 262	3629	USSR	26 DEC	18 JUL 69	
1968-119B			3630	USSR	26 DEC	30 APR 69	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES						
1969-001A	VENERA 5	3642	USSR	05 JAN	16 MAY 69	N*
1969-001B		3643	USSR	05 JAN	06 JAN 69	
1969-001C		3646	USSR	05 JAN	07 JAN 69	
1969-002A	VENERA 6	3648	USSR	10 JAN	17 MAY 69	N*
1969-002B		3649	USSR	10 JAN	11 JAN 69	
1969-002C		3650	USSR	10 JAN	13 JAN 69	
1969-003A	COSMOS 263	3651	USSR	12 JAN	20 JAN 69	
1969-003B		3652	USSR	12 JAN	18 JAN 69	
1969-003C		3653	USSR	12 JAN	19 JAN 69	
1969-004A	SOYUZ 4	3654	USSR	14 JAN	17 JAN 69	E*
1969-004B		3655	USSR	14 JAN	15 JAN 69	
1969-005A	SOYUZ 5	3656	USSR	15 JAN	18 JAN 69	E*
1969-005B		3657	USSR	15 JAN	17 JAN 69	
1969-005C		3658	USSR	15 JAN	18 JAN 69	
1969-006A	OSO 5	3663	US	22 JAN	02 APR 84	
1969-006B		3664	US	22 JAN	08 DEC 79	
1969-007A		3665	US	22 JAN	03 FEB 69	
1969-007B		3666	US	22 JAN	26 JAN 69	
1969-007C		3667	USSR	23 JAN	05 FEB 69	
1969-008A	COSMOS 264	3668	USSR	23 JAN	30 JAN 69	
1969-008B		3671	USSR	23 JAN	13 FEB 69	
1969-008C		3672	US	05 FEB	24 FEB 69	
1969-010A		3675	USSR	07 FEB	01 MAY 69	
1969-012A	COSMOS 265	3676	USSR	07 FEB	17 MAR 69	
1969-012B		3761	USSR	25 FEB	05 MAR 69	
1969-015A	COSMOS 266	3762	USSR	25 FEB	04 MAR 69	
1969-015B		3763	USSR	25 FEB	26 FEB 69	
1969-015C		3765	USSR	26 FEB	06 MAR 69	
1969-017A	COSMOS 267	3766	USSR	26 FEB	05 MAR 69	
1969-017B		3769	US	03 MAR	13 MAR 69	F*
1969-018A	APOLLO 9	3771	US	03 MAR	23 OCT 81	
1969-018C	LM/ASCENT	3780	US	03 MAR	22 MAR 69	
1969-019A	LM/DESCENT	3772	US	04 MAR	18 MAR 69	
1969-020A	COSMOS 268	3773	USSR	05 MAR	09 MAY 70	
1969-020B		3774	USSR	05 MAR	11 FEB 70	
1969-021A	COSMOS 269	3775	USSR	05 MAR	21 OCT 78	
1969-021B		3776	USSR	05 MAR	20 JUL 78	
1969-021C		3779	USSR	05 MAR	24 APR 69	AH*
1969-021D		3781	USSR	05 MAR	07 MAY 69	
1969-021E		3782	USSR	05 MAR	02 APR 70	
1969-021F		3798	USSR	05 MAR	02 MAY 70	
1969-021G		3799	USSR	05 MAR	26 NOV 69	
1969-021H		3800	USSR	05 MAR	08 SEP 69	
1969-021I		3801	USSR	05 MAR	04 APR 70	
1969-021J		3802	USSR	05 MAR	02 MAY 70	
1969-021K		3803	USSR	05 MAR	11 JUN 69	
1969-021L		3804	USSR	05 MAR	19 MAR 69	
1969-021M		3805	USSR	05 MAR	04 SEP 69	
1969-021N		3806	USSR	05 MAR	29 JUN 69	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969-0210		3820	USSR	05 MAR	07 APR 69	
1969-021R		3821	USSR	05 MAR	17 MAY 69	
1969-021S		3822	USSR	05 MAR	09 APR 69	
1969-021T		3844	USSR	05 MAR	19 JUL 83	
1969-021U		3924	USSR	05 MAR	30 DEC 69	
1969-021V		3937	USSR	05 MAR	13 AUG 69	
1969-021W		3976	USSR	05 MAR	16 MAY 70	
1969-021X		3977	USSR	05 MAR	18 AUG 69	
1969-021Y		5425	USSR	05 MAR	20 DEC 72	
1969-022A	COSMOS 270	3777	USSR	06 MAR	14 MAR 69	
1969-022B		3778	USSR	06 MAR	12 MAR 69	
1969-023A	COSMOS 271	3807	USSR	15 MAR	23 MAR 69	
1969-023B		3808	USSR	15 MAR	22 MAR 69	
1969-025A	OV1-17	3823	US	18 MAR	05 MAR 70	
1969-025B	OV1-18	3824	US	18 MAR	27 AUG 72	
1969-025D	OV1-17A	3826	US	18 MAR	24 MAR 69	
1969-025F		3828	US	18 MAR	16 MAR 79	
1969-025G		4121	US	18 MAR	06 NOV 69	
1969-026A		3829	US	19 MAR	24 MAR 69	
1969-026B		3830	US	19 MAR	06 DEC 71	
1969-027A	COSMOS 273	3831	USSR	22 MAR	30 MAR 69	
1969-027B		3832	USSR	22 MAR	28 MAR 69	
1969-028A	COSMOS 274	3833	USSR	24 MAR	01 APR 69	
1969-028B		3834	USSR	24 MAR	29 MAR 69	
1969-029B		3836	USSR	26 MAR	10 JUN 89	
1969-029C		3849	USSR	26 MAR	05 NOV 80	
1969-029D		3850	USSR	26 MAR	08 SEP 69	
1969-029E		3851	USSR	26 MAR	12 NOV 86	
1969-029F		3852	USSR	26 MAR	13 JUL 70	
1969-029G		3853	USSR	26 MAR	07 OCT 70	
1969-029H		3858	USSR	26 MAR	18 MAY 70	
1969-029J		3859	USSR	26 MAR	28 NOV 79	
1969-029K		3860	USSR	26 MAR	26 DEC 71	
1969-029L		3861	USSR	26 MAR	04 JUN 74	
1969-029M		3862	USSR	26 MAR	13 DEC 70	
1969-029N		3863	USSR	26 MAR	18 JUN 72	
1969-029P		3864	USSR	26 MAR	23 FEB 70	
1969-029Q		3865	USSR	26 MAR	25 APR 73	
1969-029R		3866	USSR	26 MAR	01 JUN 69	
1969-029S		3867	USSR	26 MAR	13 FEB 71	
1969-029T		3868	USSR	26 MAR	04 FEB 70	
1969-029U		3869	USSR	26 MAR	01 JUN 71	
1969-029V		3870	USSR	26 MAR	26 AUG 70	
1969-029W		3871	USSR	26 MAR	03 JUN 82	
1969-029X		3877	USSR	26 MAR	23 NOV 79	
1969-029Y		3878	USSR	26 MAR	23 JUN 69	
1969-029Z		3879	USSR	26 MAR	14 OCT 87	
1969-029AA		3880	USSR	26 MAR	21 AUG 69	
1969-029AB		3881	USSR	26 MAR	06 JAN 72	
1969-029AC		3882	USSR	26 MAR	19 NOV 77	
1969-029AD		3905	USSR	26 MAR	12 SEP 69	
1969-029AE		3913	USSR	29 MAR	07 MAR 70	

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# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969-029AF		3917	USSR	26 MAR	01 JUL 69	
1969-029AG		3918	USSR	26 MAR	10 MAY 69	
1969-029AH		3921	USSR	26 MAR	19 JUL 71	
1969-029AJ		3933	USSR	26 MAR	06 AUG 70	
1969-029AK		3966	USSR	26 MAR	10 SEP 69	
1969-029AL		3967	USSR	26 MAR	26 JUN 69	
1969-029AM		4289	USSR	26 MAR	26 DEC 70	
1969-029AN		9279	USSR	26 MAR	16 JUN 79	
1969-029AP		9692	USSR	26 MAR	18 JUL 78	
1969-031A	COSMOS 275	3846	USSR	28 MAR	07 FEB 70	
1969-031B		3847	USSR	28 MAR	16 SEP 69	
1969-032A	COSMOS 276	3854	USSR	04 APR	11 APR 69	
1969-032B		3856	USSR	04 APR	14 APR 69	
1969-033A	COSMOS 277	3857	USSR	04 APR	06 JUL 69	
1969-033B		3857	USSR	04 APR	18 MAY 69	
1969-034A	COSMOS 278	3883	USSR	09 APR	17 APR 69	
1969-034B		3884	USSR	09 APR	16 APR 69	
1969-035A	MOLNIYA 1-11	3885	USSR	11 APR	17 APR 74	
1969-035B		3887	USSR	11 APR	01 MAY 69	
1969-035C		3886	USSR	11 APR	01 JUL 74	
1969-035D		3888	USSR	11 APR	05 MAY 69	
1969-038A	COSMOS 279	3893	USSR	15 APR	23 APR 69	
1969-038B		3894	USSR	15 APR	18 APR 69	
1969-039A		3895	US	15 APR	30 APR 69	
1969-040A	COSMOS 280	3906	USSR	23 APR	06 MAY 69	
1969-040B		3907	USSR	23 APR	26 APR 69	
1969-040C		3919	USSR	23 APR	08 MAY 69	
1969-040D		3920	USSR	23 APR	08 MAY 69	
1969-041A		3914	US	02 MAY	23 MAY 69	
1969-041B		3915	US	02 MAY	16 FEB 70	
1969-041C		3942	US	02 MAY	19 MAY 69	
1969-042A	COSMOS 281	3939	USSR	13 MAY	21 MAY 69	
1969-042B		3940	USSR	13 MAY	17 MAY 69	
1969-043A	APOLLO 10	3941	US	18 MAY	26 MAY 69	
1969-044A	COSMOS 282	3944	USSR	20 MAY	28 MAY 69	
1969-044B		3945	USSR	20 MAY	28 MAY 69	
1969-045B		5976	US	22 MAY	07 MAR 77	
1969-046D		3954	US	23 MAY	01 JAN 93	
1969-046E		3955	US	23 MAY	01 JAN 93	
1969-047A	COSMOS 283	3957	USSR	27 MAY	10 DEC 69	
1969-047B		3958	USSR	27 MAY	01 DEC 69	
1969-048A	COSMOS 284	3971	USSR	29 MAY	06 JUN 69	
1969-048B		3972	USSR	29 MAY	04 JUN 69	
1969-048C		3973	USSR	29 MAY	30 MAY 69	
1969-049A	COSMOS 285	3983	USSR	03 JUN	07 OCT 69	
1969-049B		3985	USSR	03 JUN	05 AUG 69	
1969-050A		3984	US	03 JUN	14 JUN 69	
1969-051A	OGO 6	3986	US	05 JUN	12 OCT 79	
1969-051B		3987	US	05 JUN	12 JUN 80	
1969-052A	COSMOS 286	3988	USSR	15 JUN	23 JUN 69	
1969-052B		3989	USSR	15 JUN	23 JUN 69	
1969-053A	EXPLORER 41	3990	US	21 JUN	23 DEC 72	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECAYED OBJECTS						
1969-054A	COSMOS 287	3991	USSR	24 JUN	02 JUL 69	
1969-054B		3992	USSR	24 JUN	27 JUN 69	
1969-055A	COSMOS 288	3994	USSR	27 JUN	05 JUL 69	
1969-055B		3995	USSR	27 JUN	02 JUL 69	
1969-056A	BIOSATELLITE 3	4000	US	29 JUN	20 JAN 70	B *
1969-056A	CAPSULE	61016	US	29 JUN	07 JUL 69	
1969-056B		4001	US	29 JUN	01 DEC 69	
1969-056C		4022	US	29 JUN	13 JUL 69	
1969-057A	COSMOS 289	4034	USSR	10 JUL	15 JUL 69	
1969-057B		4035	USSR	10 JUL	16 JUL 69	A *
1969-058A	LUNA 15	4036	USSR	13 JUL	21 JUL 69	
1969-058B		4037	USSR	13 JUL	16 JUL 69	
1969-058C		4038	USSR	13 JUL	16 JUL 69	
1969-059A	APOLLO 11	4039	US	16 JUL	24 JUL 69	AU *
1969-060A	COSMOS 290	4042	USSR	22 JUL	30 JUL 69	
1969-060B		4044	USSR	22 JUL	29 JUL 69	
1969-061A		4043	USSR	22 JUL	18 JUN 71	
1969-061B		4045	USSR	22 JUL	28 AUG 69	
1969-061C		4046	USSR	22 JUL	23 AUG 69	
1969-061D		4049	USSR	22 JUL	10 JUN 71	
1969-061E		5134	USSR	22 JUL	04 MAY 71	
1969-061F		5288	USSR	22 JUL	15 JUN 71	
1969-061G		5302	USSR	22 JUL	18 JUN 71	
1969-063A		4050	US	24 JUL	23 AUG 69	
1969-064A		4051	ITSO	26 JUL	14 OCT 88	
1969-064B		4052	US	26 JUL	17 JUL 70	
1969-064D		4055	US	26 JUL	16 FEB 70	
1969-064E		4056	US	26 JUL	04 JUL 70	
1969-064F		4057	US	26 JUL	22 OCT 69	
1969-064G		4059	US	26 JUL	30 DEC 69	
1969-064H		4060	US	26 JUL	19 DEC 69	
1969-064J		4085	US	26 JUL	18 SEP 69	
1969-064K		4086	US	26 JUL	18 FEB 70	
1969-064L		4087	US	26 JUL	09 JAN 70	
1969-064M		4088	US	26 JUL	21 NOV 69	
1969-064N		4089	US	26 JUL	27 NOV 69	
1969-064P		4090	US	26 JUL	09 OCT 69	
1969-064Q		4091	US	26 JUL	08 NOV 69	
1969-064R		4099	US	26 JUL	02 JAN 70	
1969-064S		4100	US	26 JUL	19 FEB 70	
1969-064T		4101	US	26 JUL	23 SEP 69	
1969-064U		4108	US	26 JUL	30 JAN 70	
1969-064V		4109	US	26 JUL	04 SEP 70	
1969-064W		4110	US	26 JUL	24 OCT 69	
1969-064X		5309	US	26 JUL	26 JUN 73	AQ *
1969-064Y		5473	US	26 JUL	05 JAN 75	
1969-064AA		13913	US	26 JUL	06 MAR 88	
1969-064AB		13914	US	26 JUL	23 OCT 91	
1969-064AC		14846	US	26 JUL	23 DEC 87	
1969-065A		4054	US	31 JUL	29 JAN 86	
1969-066A		4058	USSR	06 AUG	04 JAN 73	
	COSMOS 291				08 SEP 69	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969-066B		4061	USSR	06 AUG	11 AUG 69	
1969-067A	ZOND 7	4062	USSR	07 AUG	14 AUG 69	
1969-067B		4063	USSR	07 AUG	10 AUG 69	
1969-067C		4064	USSR	07 AUG	12 AUG 69	
1969-067D		4067	USSR	07 AUG	13 AUG 69	
1969-068A	OSO 6	4065	US	09 AUG	07 MAR 81	
1969-068B	PAC 1	4066	US	09 AUG	28 APR 77	
1969-069C		5991	US	12 AUG	01 JAN 93	
1969-071A	COSMOS 293	4072	USSR	16 AUG	28 AUG 69	
1969-071B		4073	USSR	16 AUG	20 AUG 69	
1969-072A	COSMOS 294	4074	USSR	19 AUG	27 AUG 69	
1969-072B		4075	USSR	19 AUG	27 AUG 69	
1969-073A	COSMOS 295	4076	USSR	22 AUG	01 DEC 69	
1969-073B		4077	USSR	22 AUG	11 OCT 69	
1969-074A		4078	US	23 AUG	07 SEP 69	
1969-075A	COSMOS 296	4080	USSR	29 AUG	06 SEP 69	
1969-075B		4081	USSR	29 AUG	05 SEP 69	
1969-076A	COSMOS 297	4082	USSR	02 SEP	10 SEP 69	
1969-076B		4083	USSR	02 SEP	11 SEP 69	
1969-077A	COSMOS 298	4092	USSR	15 SEP	15 SEP 69	
1969-077B		4093	USSR	15 SEP	16 SEP 69	
1969-077C		4094	USSR	15 SEP	16 SEP 69	
1969-077D		4095	USSR	15 SEP	16 SEP 69	
1969-077E		4096	USSR	15 SEP	16 SEP 69	
1969-078A		4097	USSR	18 SEP	22 SEP 69	
1969-078B	COSMOS 299	4098	USSR	18 SEP	24 SEP 69	
1969-079A		4102	US	22 SEP	12 OCT 69	
1969-079B		4103	US	22 SEP	16 MAY 71	
1969-080A	COSMOS 300	4104	USSR	23 SEP	27 SEP 69	
1969-080B		4105	USSR	23 SEP	27 SEP 69	
1969-081A	COSMOS 301	4106	USSR	24 SEP	02 OCT 69	
1969-081B		4107	USSR	24 SEP	29 SEP 69	
1969-082A		4111	US	30 SEP	30 OCT 70	
1969-082L		4142	US	30 SEP	03 NOV 80	
1969-082Q		4146	US	30 SEP	18 DEC 88	
1969-082R		4147	US	30 SEP	16 OCT 81	
1969-082S		4148	US	30 SEP	25 JAN 82	
1969-082U		4152	US	30 SEP	03 FEB 84	
1969-082V		4153	US	30 SEP	14 APR 71	
1969-082AE		4162	US	30 SEP	14 APR 79	
1969-082AF		4163	US	30 SEP	09 JAN 81	
1969-082AH		4165	US	30 SEP	02 DEC 89	
1969-082AK		4167	US	30 SEP	04 SEP 89	
1969-082AN		4170	US	30 SEP	23 JAN 90	
1969-082AQ		4172	US	30 SEP	24 OCT 91	
1969-082AT		4175	US	30 SEP	14 DEC 92	
1969-082AU		4176	US	30 SEP	11 MAY 80	
1969-082AX		4179	US	30 SEP	13 OCT 82	
1969-082AZ		4181	US	30 SEP	10 JAN 89	
1969-082BB		4188	US	30 SEP	24 DEC 80	
1969-082BC		4189	US	30 SEP	15 DEC 80	
1969-082BF		4192	US	30 SEP	15 OCT 81	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969-082BH		4194	US	30 SEP	12 OCT 82	
1969-082BK		4196	US	30 SEP	07 MAY 73	
1969-082BL		4197	US	30 SEP	02 APR 80	
1969-082BM		4198	US	30 SEP	08 APR 81	
1969-082BN		4199	US	30 SEP	31 AUG 81	
1969-082BR		4202	US	30 SEP	08 JUN 80	
1969-082BS		4203	US	30 SEP	08 JAN 82	
1969-082BT		4204	US	30 SEP	08 SEP 79	
1969-082CB		4212	US	30 SEP	06 JUL 91	
1969-082CC		4213	US	30 SEP	13 APR 81	
1969-082CK		4228	US	30 SEP	25 MAR 81	
1969-082CL		4229	US	30 SEP	10 DEC 79	
1969-082CM		4230	US	30 SEP	07 OCT 81	
1969-082CQ		4238	US	30 SEP	30 DEC 78	
1969-082CR		4239	US	30 SEP	19 NOV 79	
1969-082CS		4240	US	30 SEP	24 MAY 80	
1969-082CT		4241	US	30 SEP	09 OCT 80	
1969-082CU		4244	US	30 SEP	11 JUN 79	
1969-082CV		4245	US	30 SEP	25 JUL 86	
1969-082CX		4248	US	30 SEP	21 NOV 78	
1969-082DA		4113	US	30 SEP	21 OCT 69	
1969-082DB		4258	US	30 SEP	16 SEP 89	
1969-082DC		4115	US	30 SEP	21 OCT 69	
1969-082DD		4260	US	30 SEP	29 SEP 90	
1969-082DE		4268	US	30 SEP	19 JAN 90	
1969-082DF		4269	US	30 SEP	29 MAR 79	
1969-082DG		4270	US	30 SEP	16 JUN 80	
1969-082DH		4271	US	30 SEP	23 FEB 80	
1969-082DJ		4272	US	30 SEP	09 SEP 70	
1969-082DM		4278	US	30 SEP	13 AUG 88	
1969-082DN		4288	US	30 SEP	12 SEP 70	
1969-082DQ		4310	US	30 SEP	07 APR 82	
1969-082DS		4312	US	30 SEP	26 MAY 83	
1969-082DT		4317	US	30 SEP	12 NOV 82	
1969-082DV		4319	US	30 SEP	06 NOV 81	
1969-082DW		4323	US	30 SEP	03 FEB 71	
1969-082DX		4324	US	30 SEP	10 MAY 70	
1969-082EA		4335	US	30 SEP	07 MAY 73	
1969-082EB		4348	US	30 SEP	28 NOV 90	
1969-082EC		4359	US	30 SEP	01 OCT 80	
1969-082EE		4433	US	30 SEP	19 APR 79	
1969-082EF		4434	US	30 SEP	05 JAN 80	
1969-082EH		4436	US	30 SEP	20 NOV 90	
1969-082EJ		4437	US	30 SEP	22 JUN 81	
1969-082EL		4439	US	30 SEP	09 MAY 72	
1969-082EM		4440	US	30 SEP	13 OCT 88	
1969-082EN		4441	US	30 SEP	02 FEB 92	
1969-082EQ		4443	US	30 SEP	28 JUL 70	
1969-082ET		4448	US	30 SEP	16 SEP 80	
1969-082EV		4450	US	30 SEP	18 DEC 81	
1969-082EX		4452	US	30 SEP	25 APR 85	
1969-082EZ		4454	US	30 SEP	25 OCT 81	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969-082FA		4457	US	30 SEP	19 OCT 70	
1969-082FC		4459	US	30 SEP	19 FEB 80	
1969-082FD		4460	US	30 SEP	08 MAR 84	
1969-082FE		4461	US	30 SEP	13 JUN 74	
1969-082FF		4462	US	30 SEP	25 MAR 82	
1969-082FG		4463	US	30 SEP	08 JUL 78	
1969-082FH		4464	US	30 SEP	02 APR 81	
1969-082FJ		4465	US	30 SEP	18 SEP 89	
1969-082FK		4466	US	30 SEP	13 JUL 90	
1969-082FL		4467	US	30 SEP	10 MAR 90	
1969-082FN		4469	US	30 SEP	30 NOV 80	
1969-082FP		4470	US	30 SEP	15 SEP 81	
1969-082FQ		4471	US	30 SEP	17 OCT 83	
1969-082FR		4472	US	30 SEP	21 JUL 80	
1969-082FS		4473	US	30 SEP	18 FEB 81	
1969-082FT		4474	US	30 SEP	14 NOV 79	
1969-082FV		4518	US	30 SEP	05 JUN 93	
1969-082FX		4520	US	30 SEP	20 DEC 77	
1969-082FY		4521	US	30 SEP	18 OCT 80	
1969-082FZ		4522	US	30 SEP	08 MAY 78	
1969-082GA		4523	US	30 SEP	26 AUG 93	
1969-082GC		4531	US	30 SEP	31 JUL 90	
1969-082GD		4532	US	30 SEP	04 MAR 79	
1969-082GE		4533	US	30 SEP	01 MAY 81	
1969-082GF		4534	US	30 SEP	10 APR 83	
1969-082GG		4535	US	30 SEP	13 JUN 78	
1969-082GH		4540	US	30 SEP	03 FEB 72	
1969-082GI		4541	US	30 SEP	20 DEC 79	
1969-082GK		4542	US	30 SEP	28 DEC 70	
1969-082GL		4543	US	30 SEP	03 AUG 90	
1969-082GM		4544	US	30 SEP	22 JUL 80	
1969-082GP		4548	US	30 SEP	14 FEB 82	
1969-082GQ		4549	US	30 SEP	12 DEC 79	
1969-082GR		4550	US	30 SEP	05 JAN 78	
1969-082GS		4551	US	30 SEP	26 OCT 81	
1969-082GU		4876	US	30 SEP	13 APR 81	
1969-082GW		4887	US	30 SEP	16 JUL 78	
1969-082GX		4888	US	30 SEP	21 JUN 83	
1969-082GY		4889	US	30 SEP	01 AUG 78	
1969-082HA		4891	US	30 SEP	24 AUG 72	
1969-082HB		4892	US	30 SEP	07 MAY 73	
1969-082HC		4893	US	30 SEP	11 MAR 81	
1969-082HF		4897	US	30 SEP	17 SEP 81	
1969-082HG		4906	US	30 SEP	12 MAY 91	
1969-082HH		4937	US	30 SEP	27 OCT 80	
1969-082HK		4939	US	30 SEP	07 AUG 79	
1969-082HM		5158	US	30 SEP	30 DEC 72	
1969-082HN		5159	US	30 SEP	15 JUN 81	
1969-082HP		5195	US	30 SEP	20 JAN 74	
1969-082HQ		5270	US	30 SEP	07 APR 73	
1969-082HR		5271	US	30 SEP	10 JUN 82	
1969-082HT		5339	US	30 SEP		

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969-082HU		5362	US	30 SEP	30 SEP 80	
1969-082HV		5429	US	30 SEP	16 JUN 79	
1969-082HX		5459	US	30 SEP	24 SEP 80	
1969-082JA		5521	US	30 SEP	27 JUL 79	
1969-082JB		5522	US	30 SEP	06 DEC 71	
1969-082JC		5593	US	30 SEP	02 MAY 73	
1969-082JD		5633	US	30 SEP	09 DEC 89	
1969-082JE		5634	US	30 SEP	13 APR 81	
1969-082JG		5636	US	30 SEP	13 MAY 78	
1969-082JJ		5750	US	30 SEP	23 JAN 77	
1969-082JK		5751	US	30 SEP	02 JAN 80	
1969-082JL		5752	US	30 SEP	12 OCT 76	
1969-082JM		5753	US	30 SEP	06 OCT 79	
1969-082JN		5754	US	30 SEP	19 JUL 83	
1969-082JQ		5756	US	30 SEP	26 OCT 74	
1969-082JR		5757	US	30 SEP	20 DEC 91	
1969-082JT		5791	US	30 SEP	03 JAN 77	
1969-082JU		5792	US	30 SEP	05 APR 72	
1969-082JV		5793	US	30 SEP	08 APR 72	
1969-082JX		5823	US	30 SEP	09 APR 72	
1969-082JY		5859	US	30 SEP	10 MAY 82	
1969-082JZ		5868	US	30 SEP	23 OCT 79	
1969-082KA		5869	US	30 SEP	22 FEB 82	
1969-082KB		5899	US	30 SEP	02 DEC 84	
1969-082KC		5900	US	30 SEP	19 MAR 73	
1969-082KD		5964	US	30 SEP	13 AUG 81	
1969-082KE		5965	US	30 SEP	12 JUL 89	
1969-082KF		6044	US	30 SEP	03 DEC 81	
1969-082KG		6178	US	30 SEP	16 DEC 79	
1969-082KJ		7285	US	30 SEP	19 JUL 74	
1969-082KK		8606	US	30 SEP	28 JUN 78	
1969-082KL		9980	US	30 SEP	13 APR 81	
1969-082KM		15548	US	30 SEP	19 MAR 89	
1969-082KN		15549	US	30 SEP	31 AUG 89	
1969-082KP		15550	US	30 SEP	20 APR 89	
1969-082KT		15554	US	30 SEP	20 JAN 90	
1969-082KV		17659	US	30 SEP	26 OCT 91	
1969-082KX		17661	US	30 SEP	20 DEC 91	
1969-082KY		17724	US	30 SEP	03 JUL 89	
1969-082KZ		18256	US	30 SEP	07 SEP 89	
1969-083A	ESRD-1B	4114	ESRD	01 OCT	23 NOV 69	
1969-083B		4117	US	01 OCT	03 NOV 69	
1969-083C		4116	US	01 OCT	21 OCT 69	
1969-083D		4118	US	01 OCT	25 OCT 69	
1969-085A	SOYUZ 6	4122	USSR	11 OCT	16 OCT 69	
1969-085B		4123	USSR	11 OCT	12 OCT 69	
1969-086A	SOYUZ 7	4124	USSR	12 OCT	17 OCT 69	
1969-086B		4125	USSR	12 OCT	14 OCT 69	
1969-087A	SOYUZ 8	4126	USSR	13 OCT	18 OCT 69	
1969-087B		4127	USSR	13 OCT	15 OCT 69	
1969-088A	INTERCOSMOS 1	4128	USSR	14 OCT	02 JAN 70	
1969-088B		4129	USSR	14 OCT	16 DEC 69	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969-089A	COSMOS 302	4130	USSR	17 OCT	25 OCT 69	
1969-089B		4131	USSR	17 OCT	24 OCT 69	
1969-090A	COSMOS 303	4136	USSR	18 OCT	23 JAN 70	
1969-090B		4137	USSR	18 OCT	07 DEC 69	
1969-092A	COSMOS 305	4150	USSR	22 OCT	24 OCT 69	
1969-092B		4151	USSR	22 OCT	24 OCT 69	
1969-093A	COSMOS 306	4182	USSR	22 OCT	05 NOV 69	
1969-093B		4183	USSR	24 OCT	29 OCT 69	
1969-094A	COSMOS 307	4184	USSR	24 OCT	30 DEC 70	
1969-094B		4185	USSR	24 OCT	20 JUL 70	
1969-095A		4186	US	24 OCT	08 NOV 69	
1969-096A	COSMOS 308	4219	USSR	04 NOV	04 JAN 70	
1969-096B		4220	USSR	04 NOV	06 DEC 69	
1969-097C		4242	FRG	08 NOV	07 OCT 81	
1969-097D		4243	FRG	08 NOV	24 AUG 81	
1969-097E		4261	FRG	08 NOV	11 JUL 80	
1969-097F		4265	FRG	08 NOV	13 APR 81	
1969-098A		4223	USSR	12 NOV	20 NOV 69	
1969-098B	COSMOS 309	4224	USSR	12 NOV	22 NOV 69	
1969-098C		4234	USSR	12 NOV	26 NOV 69	
1969-098D		4235	USSR	12 NOV	25 NOV 69	
1969-098E		4236	USSR	12 NOV	30 NOV 69	
1969-099A	APOLLO 12	4225	US	14 NOV	24 NOV 69	
1969-099C	LUNAR MODULE	4226	US	14 NOV	20 NOV 69	AJ* AM*
1969-100A	COSMOS 310	4232	USSR	15 NOV	23 NOV 69	
1969-100B		4233	USSR	15 NOV	23 NOV 69	
1969-102A	COSMOS 311	4252	USSR	24 NOV	10 MAR 70	
1969-102B		4253	USSR	24 NOV	19 JAN 70	
1969-104A	COSMOS 313	4262	USSR	03 DEC	15 DEC 69	
1969-104B		4263	USSR	03 DEC	06 DEC 69	
1969-105A		4264	US	04 DEC	10 JAN 70	
1969-106A	COSMOS 314	4266	USSR	11 DEC	22 MAR 70	
1969-106B		4267	USSR	11 DEC	27 JAN 70	
1969-107A	COSMOS 315	4273	USSR	20 DEC	25 MAR 79	
1969-107B		4274	USSR	20 DEC	02 APR 79	
1969-107C		4275	USSR	20 DEC	29 APR 70	
1969-107D		4279	USSR	20 DEC	10 OCT 71	
1969-107E		4287	USSR	20 DEC	13 JUN 70	
1969-107F		4294	USSR	20 DEC	14 MAY 70	
1969-108A	COSMOS 316	4282	USSR	23 DEC	28 AUG 70	
1969-108B		4283	USSR	23 DEC	01 JAN 70	
1969-108C		4284	USSR	23 DEC	28 JAN 70	
1969-109A	COSMOS 317	4280	USSR	23 DEC	05 JAN 70	
1969-109B		4281	USSR	23 DEC	28 DEC 69	
1969-109C		4290	USSR	23 DEC	08 JAN 70	
1969-109D		4291	USSR	23 DEC	09 JAN 70	
1969-110A	INTERCOSMOS 2	4285	USSR	25 DEC	07 JUN 70	
1969-110B		4286	USSR	25 DEC	21 MAR 70	

1970 LAUNCHES

1970-001A	COSMOS 318	4292	USSR	09 JAN	21 JAN 70	
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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970-001B			4293	USSR	09 JAN	15 JAN 70	
1970-002A			4296	US	14 JAN	01 FEB 70	
1970-004A	COSMOS 319		4299	USSR	15 JAN	01 JUL 70	
1970-004B			4300	USSR	15 JAN	01 MAY 70	
1970-005A	COSMOS 320		4301	USSR	16 JAN	10 FEB 70	
1970-005B			4302	USSR	16 JAN	28 JAN 70	
1970-005C			4303	USSR	16 JAN	24 JAN 70	
1970-005D			4304	USSR	16 JAN	11 FEB 70	
1970-005E			4305	USSR	16 JAN	03 MAR 70	
1970-005F			4306	USSR	16 JAN	24 JAN 70	
1970-005G			4307	USSR	16 JAN	29 JAN 70	
1970-006A	COSMOS 321		4308	USSR	20 JAN	23 MAR 70	
1970-006B			4309	USSR	20 JAN	07 MAR 70	
1970-006C			4313	USSR	20 JAN	25 JAN 70	
1970-006D			4314	USSR	20 JAN	29 JAN 70	
1970-007A	COSMOS 322		4315	USSR	21 JAN	29 JAN 70	
1970-007B			4316	USSR	21 JAN	25 JAN 70	
1970-010A	COSMOS 323		4328	USSR	10 FEB	18 FEB 70	
1970-010B			4329	USSR	10 FEB	15 FEB 70	
1970-013A	MOLNIYA 1-13		4336	USSR	19 FEB	29 SEP 75	
1970-013B			4333	USSR	19 FEB	09 MAR 70	
1970-013C			4334	USSR	19 FEB	11 MAR 70	
1970-013D			4337	USSR	19 FEB	09 JAN 76	
1970-014A	COSMOS 324		4338	USSR	27 FEB	23 MAY 70	
1970-014B			4339	USSR	27 FEB	11 APR 70	
1970-015A	COSMOS 325		4340	USSR	04 MAR	12 MAR 70	
1970-015B			4341	USSR	04 MAR	10 MAR 70	
1970-016A			4342	US	04 MAR	26 MAR 70	
1970-016B			4343	US	04 MAR	10 NOV 71	
1970-017A	DIAL-WIKA		4344	FRG	10 MAR	05 OCT 78	
1970-017B			4345	FRANCE	10 MAR	09 SEP 74	
1970-018A	COSMOS 326		4346	USSR	13 MAR	21 MAR 70	
1970-018B			4347	USSR	13 MAR	23 MAR 70	
1970-019A	METEOR		4349	USSR	17 MAR	18 NOV 83	
1970-019B			4350	USSR	17 MAR	26 NOV 82	
1970-019C			5573	USSR	17 MAR	03 NOV 74	
1970-020A	COSMOS 327		4351	USSR	18 MAR	19 JAN 71	
1970-020B			4352	USSR	18 MAR	27 SEP 70	
1970-022A	COSMOS 328		4355	USSR	27 MAR	09 APR 70	
1970-022B			4356	USSR	27 MAR	01 APR 70	
1970-023A	COSMOS 329		4357	USSR	03 APR	15 APR 70	
1970-023B			4358	USSR	03 APR	05 APR 70	
1970-024A	COSMOS 330		4360	USSR	07 APR	12 JUN 79	
1970-024B			4361	USSR	07 APR	10 NOV 79	
1970-025E			4602	US	08 APR	14 OCT 82	
1970-025H			4605	US	08 APR	11 AUG 86	
1970-025J			4606	US	08 APR	14 AUG 79	
1970-025L			4608	US	08 APR	26 JAN 92	
1970-025M			4609	US	08 APR	15 MAY 91	
1970-025AE			4646	US	08 APR	25 OCT 91	
1970-025AX			4674	US	08 APR	13 AUG 82	
1970-025BB			4678	US	08 APR	20 FEB 80	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970--025BD		4680	US	08 APR	16 DEC 88	
1970--025BH		4684	US	08 APR	08 AUG 90	
1970--025BP		4701	US	08 APR	22 JUL 72	
1970--025BO		4702	US	08 APR	07 JUL 72	
1970--025BR		4703	US	08 APR	01 DEC 78	
1970--025BS		4704	US	08 APR	27 JAN 92	
1970--025BV		4707	US	08 APR	14 OCT 83	
1970--025CF		4732	US	08 APR	06 FEB 72	
1970--025CP		4740	US	08 APR	10 AUG 72	
1970--025DG		4750	US	08 APR	23 AUG 90	
1970--025DQ		4758	US	08 APR	18 MAR 82	
1970--025DR		4770	US	08 APR	16 MAY 89	
1970--025DV		4771	US	08 APR	22 FEB 83	
1970--025EN		4775	US	08 APR	31 JUL 81	
1970--025EQ		4858	US	08 APR	23 MAY 79	
1970--025EV		4860	US	08 APR	06 MAY 90	
1970--025FA		4865	US	08 APR	26 OCT 81	
1970--025FD		4870	US	08 APR	09 NOV 79	
1970--025FF		4898	US	08 APR	10 JUN 82	
1970--025FM		4908	US	08 APR	27 DCT 91	
1970--025FX		4915	US	08 APR	08 AUG 71	
1970--025FZ		4931	US	08 APR	04 AUG 78	
1970--025GC		4933	US	08 APR	08 JUN 79	
1970--025GH		4936	US	08 APR	22 JUL 80	
1970--025GK		4947	US	08 APR	18 JUL 81	
1970--025GS		4949	US	08 APR	05 MAR 72	
1970--025GU		4972	US	08 APR	29 MAY 71	
1970--025GV		4974	US	08 APR	02 JUN 71	
1970--025GY		4975	US	08 APR	02 JUN 78	
1970--025HE		4978	US	08 APR	13 APR 81	
1970--025HR		4984	US	08 APR	11 APR 72	
1970--025HV		4995	US	08 APR	02 OCT 89	
1970--025HX		4999	US	08 APR	28 OCT 79	
1970--025JB		5023	US	08 APR	29 SEP 79	
1970--025JC		5027	US	08 APR	17 JAN 91	
1970--025JD		5037	US	08 APR	18 JUL 80	
1970--025JU		5038	US	08 APR	18 JUL 71	
1970--025JV		5065	US	08 APR	30 JAN 84	
1970--025KD		5152	US	08 APR	13 MAR 91	
1970--025KF		5190	US	08 APR	10 NOV 79	
1970--025KK		5219	US	08 APR	28 OCT 88	
1970--025KM		5346	US	08 APR	14 OCT 71	
1970--025KW		5348	US	08 APR	04 MAR 92	
1970--025KZ		5391	US	08 APR	16 FEB 82	
1970--025LB		5421	US	08 APR	29 AUG 79	
1970--025LC		5423	US	08 APR	05 DEC 71	
1970--025LD		5424	US	08 APR	19 MAR 82	
1970--025LF		5445	US	08 APR	28 OCT 88	
1970--025LH		5501	US	08 APR	26 DEC 78	
1970--025LJ		5504	US	08 APR	23 JUN 91	
1970--025LK		5505	US	08 APR	20 MAR 91	
		5506	US	08 APR	28 MAR 91	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970-025LM		5508	US	08 APR	23 NOV 91	
1970-025LN		5509	US	08 APR	11 APR 72	
1970-025LP		5510	US	08 APR	18 MAR 91	
1970-025LQ		5535	US	08 APR	24 MAR 72	
1970-025LR		5600	US	08 APR	16 APR 90	
1970-025LS		5601	US	08 APR	12 NOV 88	
1970-025LT		5621	US	08 APR	21 MAR 72	
1970-025LU		5622	US	08 APR	06 AUG 91	
1970-025LY		5693	US	08 APR	29 MAR 91	
1970-025MA		5695	US	08 APR	13 DEC 84	
1970-025MC		5697	US	08 APR	01 APR 91	
1970-025ME		5699	US	08 APR	15 DEC 89	
1970-025MF		5700	US	08 APR	16 JUN 79	
1970-025MG		5701	US	08 APR	27 JAN 90	
1970-025MK		5825	US	08 APR	03 DEC 72	
1970-025MM		5843	US	08 APR	23 FEB 89	
1970-025MS		6015	US	08 APR	19 FEB 73	
1970-025MT		6051	US	08 APR	17 MAR 76	
1970-025MU		6084	US	08 APR	12 MAY 74	
1970-025MW		6140	US	08 APR	20 MAR 79	
1970-025NA		6161	US	08 APR	30 OCT 88	
1970-025NC		6184	US	08 APR	06 NOV 90	
1970-025ND		6185	US	08 APR	08 JUN 81	
1970-025NN		9784	US	08 APR	24 NOV 89	
1970-025NP		9997	US	08 APR	04 JAN 78	
1970-025NU		14468	US	08 APR	31 JAN 92	
1970-025NX		14479	US	08 APR	04 JAN 90	
1970-025NY		15520	US	08 APR	06 JUN 89	
1970-025NZ		15537	US	08 APR	20 DEC 88	
1970-025PB		17169	*US	08 APR	28 FEB 92	
1970-025PG		17718	US	08 APR	22 DEC 89	
1970-025PK		17721	US	08 APR	17 AUG 89	
1970-025PM		18419	US	08 APR	20 JAN 92	
1970-025PR		18811	US	08 APR	14 AUG 89	
COSMOS 331		4364	USSR	08 APR	16 APR 70	
1970-026A		4365	USSR	08 APR	16 APR 70	
1970-026B		4366	US	08 APR	01 JAN 93	
1970-027A		4368	US	08 APR	01 JAN 93	
1970-027B		4371	US	11 APR	17 APR 70	
1970-029A	APOLLO 13	4372	US	11 APR	15 APR 70	AN*
1970-029B		4373	USSR	15 APR	28 APR 70	G+
COSMOS 333		4374	USSR	15 APR	02 MAY 70	
1970-030A		4395	USSR	15 APR	18 APR 70	
1970-030B		4396	USSR	15 APR	09 MAY 70	
1970-030C		4396	US	15 APR	06 MAY 70	
1970-030D		4375	US	15 APR	09 AUG 70	
1970-031A		4378	USSR	23 APR	16 MAY 70	
1970-033A	COSMOS 334	4379	USSR	23 APR	08 JUL 70	
1970-033B		4397	USSR	23 APR	25 MAY 70	
1970-033C		4398	USSR	23 APR	16 MAY 70	
1970-033D		4399	USSR	23 APR	23 MAR 83	
1970-033E		4400	PRC	24 APR	23 MAR 83	
1970-034C		4380	USSR	24 APR	22 JUN 70	
1970-035A	COSMOS 335					

DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970-035B		4381	USSR	24 APR	17 MAY 70	
1970-037C		5055	USSR	28 APR	26 FEB 79	
1970-038A	COSMOS 344	4401	USSR	12 MAY	20 MAY 70	
1970-038B		4402	USSR	12 MAY	20 MAY 70	
1970-039A	COSMOS 345	4403	USSR	20 MAY	28 MAY 70	
1970-039B		4404	USSR	20 MAY	23 MAY 70	
1970-040A		4405	US	20 MAY	17 JUN 70	
1970-040B		4406	US	20 MAY	08 MAR 74	
1970-041A	SOYUZ 9	4407	USSR	01 JUN	19 JUN 70	
1970-041B		4408	USSR	01 JUN	03 JUN 70	
1970-042A	COSMOS 346	4409	USSR	10 JUN	17 JUN 70	
1970-042B		4410	USSR	10 JUN	13 JUN 70	
1970-043A	COSMOS 347	4411	USSR	12 JUN	07 NOV 71	
1970-043B		4412	USSR	12 JUN	14 FEB 71	
1970-044A	COSMOS 348	4413	USSR	13 JUN	25 JUL 70	
1970-044B		4414	USSR	13 JUN	09 JUL 70	
1970-045A	COSMOS 349	4415	USSR	13 JUN	17 JUN 70	
1970-045B		4416	USSR	17 JUN	25 JUN 70	
1970-048A		4417	USSR	17 JUN	22 JUN 70	
1970-049A	MOLNIYA 1-14	4422	US	25 JUN	06 JUL 70	
1970-049B		4430	USSR	26 JUN	16 FEB 76	
1970-049C		4424	USSR	26 JUN	25 JUL 70	
1970-049D		4423	USSR	26 JUN	17 JUL 70	
1970-050A	COSMOS 350	4425	USSR	26 JUN	02 MAR 76	
1970-050B		4426	USSR	26 JUN	08 JUL 70	
1970-051A	COSMOS 351	4427	USSR	27 JUN	29 JUN 70	
1970-052A	COSMOS 352	4428	USSR	27 JUN	13 OCT 70	
1970-052B		4446	USSR	07 JUL	18 AUG 70	
1970-053A	COSMOS 353	4447	USSR	07 JUL	15 JUL 70	
1970-053B		4455	USSR	07 JUL	12 JUL 70	
1970-054A		4456	USSR	09 JUL	21 JUL 70	
1970-056A	COSMOS 354	4477	US	23 JUL	16 JUL 70	
1970-056B		4481	USSR	28 JUL	19 AUG 70	
1970-056C		4480	USSR	28 JUL	28 JUL 70	
1970-057A	INTERCOSMOS 3	4479	USSR	28 JUL	29 JUL 70	
1970-057B		4482	USSR	07 AUG	06 DEC 70	
1970-058A	COSMOS 355	4483	USSR	07 AUG	17 NOV 70	
1970-058B		4484	USSR	07 AUG	15 AUG 70	
1970-059A	COSMOS 356	4485	USSR	07 AUG	14 AUG 70	
1970-059B		4487	USSR	10 AUG	02 OCT 70	
1970-060A		4488	USSR	10 AUG	01 OCT 70	
1970-060B	VENERA 7	4489	USSR	17 AUG	15 DEC 70	
1970-060C		4490	USSR	17 AUG	18 AUG 70	
1970-061A		4491	USSR	17 AUG	18 AUG 70	
1970-063A	COSMOS 357	4492	US	18 AUG	03 SEP 70	
1970-063B		4495	USSR	19 AUG	24 NOV 70	
1970-064A	COSMOS 358	4496	USSR	19 AUG	15 OCT 70	
1970-064B		4497	USSR	20 AUG	26 JUN 90	
1970-064C		4498	USSR	20 AUG	07 JUL 79	
1970-065A	COSMOS 359	4514	USSR	20 AUG	29 OCT 70	
		4501	USSR	22 AUG	06 NOV 70	

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DECEASED OBJECTS		CATALOG		SOURCE	LAUNCH	DECAY	NOTES
INTER- NATIONAL DESIGNATION	NAME	NUMBER	NUMBER				
1970-065B	NNSS 30190	4502	USSR	22 AUG	29 AUG 70		
1970-065C		4504	USSR	22 AUG	11 SEP 70		
1970-065D		4505	USSR	22 AUG	06 OCT 71		
1970-065E		4506	USSR	22 AUG	09 SEP 70		
1970-066A	COSMOS 360	4503	US	26 AUG	26 MAR 75		
1970-067E		6372	US	27 AUG	13 APR 81		
1970-068A		4508	USSR	29 AUG	08 SEP 70		
1970-068B		4509	USSR	29 AUG	02 SEP 70		
1970-068C	COSMOS 361	4516	USSR	29 AUG	09 SEP 70		
1970-068D		4517	USSR	29 AUG	11 SEP 70		
1970-068E		4526	USSR	29 AUG	11 SEP 70		
1970-071A		4524	USSR	08 SEP	21 SEP 70		
1970-071B	LUNA 16	4525	USSR	08 SEP	14 SEP 70		
1970-071C		4545	USSR	08 SEP	05 OCT 70		
1970-071D		4546	USSR	08 SEP	26 SEP 70		
1970-072A		4527	USSR	12 SEP	24 SEP 70		
1970-072B	COSMOS 362	4528	USSR	12 SEP	15 SEP 70		
1970-072C		4529	USSR	12 SEP	15 SEP 70		
1970-073A		4536	USSR	16 SEP	13 OCT 71		
1970-073B		4537	USSR	16 SEP	28 MAR 71		
1970-074A	COSMOS 363	4538	USSR	17 SEP	29 SEP 70		
1970-074B		4539	USSR	17 SEP	22 SEP 70		
1970-075A		4553	USSR	22 SEP	02 OCT 70		
1970-075B		4554	USSR	22 SEP	28 SEP 70		
1970-075C	COSMOS 364	4563	USSR	25 SEP	09 OCT 70		
1970-076A		4556	USSR	25 SEP	25 SEP 70		
1970-076B		4557	USSR	25 SEP	26 SEP 70		
1970-076C		4558	USSR	25 SEP	25 SEP 70		
1970-077A	MOLNIYA 1-15	4569	USSR	29 SEP	20 MAR 76		
1970-077B		4560	USSR	29 SEP	23 OCT 70		
1970-077C		4560	USSR	29 SEP	16 OCT 70		
1970-077D		4570	USSR	29 SEP	31 MAY 72		
1970-077E	COSMOS 366	5950	USSR	29 SEP	30 APR 72		
1970-078A		4561	USSR	01 OCT	13 OCT 70		
1970-078B		4562	USSR	01 OCT	06 OCT 70		
1970-078C		4565	USSR	03 OCT	06 OCT 70		
1970-079B	COSMOS 368	4566	USSR	03 OCT	31 OCT 70		
1970-079C		4567	USSR	03 OCT	08 OCT 70		
1970-079D		4568	USSR	03 OCT	12 OCT 70		
1970-079E		4571	USSR	08 OCT	14 OCT 70		
1970-080A	COSMOS 369	4572	USSR	08 OCT	20 OCT 70		
1970-080B		4575	USSR	08 OCT	07 JAN 71		
1970-080C		4582	USSR	08 OCT	19 OCT 70		
1970-080D		4585	USSR	08 OCT	04 NOV 70		
1970-080E	COSMOS 370	4573	USSR	08 OCT	22 JAN 71		
1970-081A		4574	USSR	08 OCT	30 NOV 70		
1970-081B		4576	USSR	09 OCT	22 OCT 70		
1970-082A		4577	USSR	09 OCT	13 OCT 70		
1970-082B	INTERCOSMOS 4	4593	USSR	09 OCT	27 OCT 70		
1970-082C		4593	USSR	09 OCT	17 JAN 71		
1970-084A		4580	USSR	14 OCT	17 DEC 70		
1970-084B		4581	USSR	14 OCT	17 DEC 70		
1970-085C		6330	USSR	15 OCT	10 MAR 90		

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INTER-NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
NAME									
1970-087A	COSMOS 373	4590	USSR	20 OCT	08 MAR 80				
1970-087B		4595	USSR	20 OCT	18 JAN 71				
1970-088A	ZOND 8	4591	USSR	20 OCT	27 OCT 70				
1970-088B		4592	USSR	20 OCT	26 OCT 70				
1970-089J		4666	USSR	23 OCT	25 SEP 90				
1970-089M		4669	USSR	23 OCT	08 AUG 80				
1970-089N		4670	USSR	23 OCT	03 APR 78				
1970-089P		4671	USSR	23 OCT	27 JAN 79				
1970-089U		4824	USSR	23 OCT	21 OCT 79				
1970-089Y		5022	USSR	23 OCT	24 JUN 72				
1970-089AA		5029	USSR	23 OCT	03 JUN 81				
1970-089AB		5031	USSR	23 OCT	30 MAR 90				
1970-089AC		5032	USSR	23 OCT	14 AUG 83				
1970-089AD		5033	USSR	23 OCT	01 MAR 90				
1970-089AF		5068	USSR	23 OCT	05 DEC 76				
1970-089AG		5069	USSR	23 OCT	22 FEB 72				
1970-089AJ		5071	USSR	23 OCT	02 OCT 78				
1970-089AK		5072	USSR	23 OCT	13 APR 81				
1970-089AL		5073	USSR	23 OCT	26 JUL 71				
1970-089AM		5074	USSR	23 OCT	13 APR 81				
1970-089AR		5078	USSR	23 OCT	22 APR 72				
1970-089AS		5079	USSR	23 OCT	26 MAR 79				
1970-089AT		5080	USSR	23 OCT	29 JUN 81				
1970-089AU		5081	USSR	23 OCT	29 OCT 81				
1970-089AV		5096	USSR	23 OCT	01 MAY 79				
1970-089AW		5132	USSR	23 OCT	10 NOV 82				
1970-089AX		5136	USSR	23 OCT	09 NOV 81				
1970-089AY		5138	USSR	23 OCT	24 MAR 72				
1970-089BA		5189	USSR	23 OCT	10 NOV 82				
1970-089BC		5199	USSR	23 OCT	05 DEC 76				
1970-089BD		5202	USSR	23 OCT	23 AUG 77				
1970-089BE		5224	USSR	23 OCT	22 DEC 78				
1970-089BG		5242	USSR	23 OCT	17 NOV 92				
1970-089BH		5276	USSR	23 OCT	16 JUN 79				
1970-089BJ		5278	USSR	23 OCT	06 MAR 83				
1970-089BK		5279	USSR	23 OCT	22 NOV 82				
1970-089BL		5293	USSR	23 OCT	05 DEC 76				
1970-089BLM		5294	USSR	23 OCT	16 FEB 72				
1970-089BN		5295	USSR	23 OCT	16 DEC 91				
1970-089BP		5296	USSR	23 OCT	20 MAY 91				
1970-089BQ		5321	USSR	23 OCT	05 DEC 76				
1970-089BR		5335	USSR	23 OCT	20 NOV 76				
1970-089BT		5338	USSR	23 OCT	16 JUN 92				
1970-089BU		5411	USSR	23 OCT	02 JUN 82				
1970-089BV		5412	USSR	23 OCT	30 APR 80				
1970-089BW		5413	USSR	23 OCT	24 JUL 80				
1970-089BX		5431	USSR	23 OCT	26 JAN 72				
1970-089BZ		5433	USSR	23 OCT	01 JAN 82				
1970-089CA		5454	USSR	23 OCT	21 APR 80				
1970-089CB		5455	USSR	23 OCT	03 SEP 75				
1970-089CC		5456	USSR	23 OCT	03 SEP 77				
1970-089CE		5458	USSR	23 OCT	12 APR 76				

INTER - NATIONAL DESIGNATION			DECAYED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
NAME														
1970-089CF			5523	USSR	23 OCT	24 FEB 81								
1970-089CG			5524	USSR	23 OCT	07 APR 79								
1970-089CM			5796	USSR	23 OCT	06 AUG 72								
1970-089CN			5797	USSR	23 OCT	05 MAY 74								
1970-089CP			5896	USSR	23 OCT	02 APR 73								
1970-089CQ			5897	USSR	23 OCT	22 JUL 81								
1970-089CR			5898	USSR	23 OCT	05 NOV 81								
1970-089CS			5963	USSR	23 OCT	23 JUL 79								
1970-089CU			6177	USSR	23 OCT	04 JAN 82								
1970-089CV			13936	USSR	23 OCT	20 OCT 83								
1970-089CX			14834	USSR	23 OCT	08 MAY 84								
1970-089CY			14835	USSR	23 OCT	21 APR 84								
1970-089CZ			14836	USSR	23 OCT	07 APR 89								
1970-089DA			15782	USSR	23 OCT	08 DEC 91								
1970-089DB			17669	USSR	23 OCT	06 JUL 91								
1970-089DE			19433	USSR	23 OCT	25 SEP 89								
1970-089DG			20049	USSR	23 OCT	15 JUN 89								
1970-090A			4596	US	23 OCT	11 NOV 70								
1970-091F			4626	USSR	30 OCT	20 FEB 80								
1970-091G			4627	USSR	30 OCT	25 NOV 88								
1970-091K			4633	USSR	30 OCT	21 FEB 84								
1970-091P			4662	USSR	30 OCT	07 APR 82								
1970-091Q			4663	USSR	30 OCT	24 AUG 88								
1970-091W			4725	USSR	30 OCT	27 AUG 88								
1970-091AA			4729	USSR	30 OCT	22 OCT 80								
1970-091AB			4730	USSR	30 OCT	26 NOV 78								
1970-091AC			4731	USSR	30 OCT	24 FEB 81								
1970-091AD			4826	USSR	30 OCT	05 AUG 81								
1970-091AF			4828	USSR	30 OCT	09 NOV 80								
1970-091AG			4896	USSR	30 OCT	16 SEP 77								
1970-091AL			5082	USSR	30 OCT	29 AUG 88								
1970-091AN			5084	USSR	30 OCT	22 NOV 82								
1970-091AP			5089	USSR	30 OCT	05 DEC 76								
1970-091AS			14527	USSR	30 OCT	29 AUG 90								
1970-091AT			14838	USSR	30 OCT	01 NOV 89								
1970-091AU			18798	USSR	30 OCT	23 JAN 89								
1970-091AW			19023	USSR	30 OCT	27 DEC 89								
1970-092A			4599	USSR	30 OCT	12 NOV 70								
1970-092B			4600	USSR	30 OCT	05 NOV 70								
1970-092C			4700	USSR	30 OCT	20 NOV 70								
1970-093C			4631	US	06 NOV	07 NOV 70								
1970-094A			4690	US	09 NOV	09 MAY 71								
1970-094B			4692	US	09 NOV	07 FEB 71								
1970-094C			4693	US	09 NOV	18 DEC 70								
1970-094D			4747	US	09 NOV	25 JAN 71								
1970-094E			4844	US	09 NOV	21 JAN 71								
1970-095A			4691	USSR	10 NOV	17 NOV 70								
1970-095B			4694	USSR	10 NOV	13 NOV 70								
1970-095C			4697	USSR	10 NOV	13 NOV 70								
1970-096A			4695	USSR	11 NOV	23 NOV 70								
1970-096B			4696	USSR	11 NOV	16 NOV 70								
1970-097A			4713	USSR	17 NOV	17 AUG 72								

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970-097B		4714	USSR	17 NOV	30 SEP 72	
1970-098A		4721	US	18 NOV	11 DEC 70	
1970-098B		4722	US	18 NOV	14 SEP 77	
1970-099A	COSMOS 379	4760	USSR	24 NOV	21 SEP 83	
1970-099B		4761	USSR	24 NOV	26 NOV 70	
1970-099C		4780	USSR	24 NOV	13 FEB 71	
1970-099D		4817	USSR	24 NOV	02 JAN 71	
1970-100A	COSMOS 380	4762	USSR	24 NOV	17 JUN 71	
1970-100B		4763	USSR	24 NOV	09 APR 71	
1970-101A		4779	USSR	27 NOV	25 NOV 75	
1970-101B	MOLNIYA 1-16	4781	USSR	27 NOV	11 DEC 70	
1970-101C		4782	USSR	27 NOV	17 DEC 70	
1970-102C		4785	USSR	27 NOV	02 JAN 76	
1970-103D		4840	USSR	02 DEC	23 APR 92	
1970-103E		5316	USSR	02 DEC	07 NOV 90	
1970-103F		5326	USSR	02 DEC	03 JAN 77	
1970-104A	COSMOS 383	6072	USSR	02 DEC	03 JAN 77	
1970-104B		4787	USSR	03 DEC	16 DEC 70	
1970-104C		4788	USSR	03 DEC	09 DEC 70	
1970-105A	COSMOS 384	4791	USSR	10 DEC	22 DEC 70	
1970-105B		4792	USSR	10 DEC	15 DEC 70	
1970-105C		4795	USSR	10 DEC	18 DEC 70	
1970-105D		4796	USSR	10 DEC	18 DEC 70	
1970-105E		4810	USSR	10 DEC	27 DEC 70	
1970-107A	EXPLORER 42	4797	US	12 DEC	05 APR 79	
1970-107B		4798	US	12 DEC	15 DEC 78	
1970-109A	PEOLE	4801	FRANCE	12 DEC	16 JUN 80	
1970-109C		4803	FRANCE	12 DEC	14 MAY 80	
1970-109D		4839	FRANCE	12 DEC	20 APR 79	
1970-109E		5264	FRANCE	12 DEC	06 JAN 80	
1970-109F		5952	FRANCE	12 DEC	30 OCT 76	
1970-110A	COSMOS 386	4804	USSR	15 DEC	28 DEC 70	
1970-110B		4805	USSR	15 DEC	19 DEC 70	
1970-110C		4808	USSR	15 DEC	17 DEC 70	
1970-110D		4835	USSR	15 DEC	12 JAN 71	
1970-110E		4836	USSR	15 DEC	03 JAN 71	
1970-110F		4838	USSR	15 DEC	02 JAN 71	
1970-111A	COSMOS 387	4807	USSR	16 DEC	19 JAN 80	
1970-111B		4809	USSR	16 DEC	25 MAR 80	
1970-111C		4815	USSR	16 DEC	12 DEC 71	
1970-111D		4816	USSR	16 DEC	03 SEP 71	
1970-111E		4811	USSR	18 DEC	24 AUG 71	
1970-112A		4812	USSR	18 DEC	10 MAY 71	
1970-112B	COSMOS 388	4834	USSR	18 DEC	17 FEB 71	
1970-113C		4829	USSR	25 DEC	19 SEP 72	
1970-114A		4830	USSR	25 DEC	22 DEC 75	
1970-114B	MOLNIYA 1-17	4831	USSR	25 DEC	23 JAN 71	
1970-114C		4832	USSR	25 DEC	10 FEB 71	
1970-114D		4833	USSR	25 DEC	02 JAN 71	
1970-114E		4837	USSR	25 DEC	02 JAN 71	
1970-114F		6313	USSR	25 DEC	03 MAR 73	
1970-114G					07 FEB 73	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES						
1971-000E		5310	US	01 JAN	26 SEP 90	14*
1971-001A	COSMOS 390	4845	USSR	12 JAN	25 JAN 71	
1971-001B		4846	USSR	12 JAN	17 JAN 71	
1971-001C		4878	USSR	12 JAN	01 FEB 71	
1971-001D		4879	USSR	12 JAN	27 JAN 71	
1971-001E		4883	USSR	12 JAN	27 JAN 71	
1971-001F		4886	USSR	12 JAN	27 JAN 71	
1971-002A	COSMOS 391	4847	USSR	14 JAN	21 FEB 72	
1971-002B		4848	USSR	14 JAN	21 AUG 71	
1971-004A	COSMOS 392	4872	USSR	21 JAN	02 FEB 71	
1971-004B		4873	USSR	21 JAN	26 JAN 71	
1971-005A		4874	US	21 JAN	09 FEB 71	
1971-005B		4875	US	21 JAN	22 JAN 71	
1971-005C		4909	US	21 JAN	09 FEB 71	
1971-007A	COSMOS 393	4884	USSR	26 JAN	16 JUN 71	
1971-007B		4885	USSR	26 JAN	31 MAR 71	
1971-008A	APOLLO 14	4900	US	31 JAN	09 FEB 71	AJ* G*
1971-008B		4904	US	31 JAN	04 FEB 71	AM*
1971-008C	LUNAR MODULE	4905	US	31 JAN	07 FEB 71	
1971-009C		5974	US	03 FEB	10 AUG 75	
1971-010B		4923	USSR	09 FEB	21 MAR 84	
1971-010C		4927	USSR	09 FEB	18 APR 81	
1971-011C		5419	JAPAN	16 FEB	26 JUL 80	
1971-012C		4957	US	17 FEB	17 OCT 89	
1971-012E		4958	US	17 FEB	20 SEP 89	
1971-013A	COSMOS 395	4963	US	17 FEB	07 JAN 90	
1971-013B		4955	USSR	17 FEB	06 APR 80	
1971-013C		5001	USSR	17 FEB	19 JUL 80	
1971-013D		5002	USSR	17 FEB	15 FEB 72	
1971-013E		5227	USSR	17 FEB	17 JAN 72	
1971-014A		4959	USSR	18 FEB	06 SEP 71	
1971-014B	COSMOS 396	4960	USSR	18 FEB	03 MAR 71	
1971-014C		4961	USSR	18 FEB	25 FEB 71	
1971-014D		4962	USSR	18 FEB	20 FEB 71	
1971-014E		5005	USSR	18 FEB	21 FEB 71	
1971-014F		5006	USSR	18 FEB	08 MAR 71	
1971-015B		4965	USSR	25 FEB	04 MAR 71	
1971-015C		5009	USSR	25 FEB	11 APR 93	
1971-015R		5090	USSR	25 FEB	10 OCT 89	
1971-015T		5092	USSR	25 FEB	15 MAY 88	
1971-015V		5095	USSR	25 FEB	18 APR 92	
1971-015Y		5099	USSR	25 FEB	27 APR 90	
1971-015Z		5100	USSR	25 FEB	10 FEB 82	
1971-015AA		5101	USSR	25 FEB	24 AUG 89	
1971-015AB		5102	USSR	25 FEB	09 NOV 91	
1971-015AD		5130	USSR	25 FEB	29 OCT 80	
1971-015AN		5191	USSR	25 FEB	28 JAN 93	
1971-015AQ		5193	USSR	25 FEB	08 MAR 80	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971-015AR		5194	USSR	25 FEB	25 MAY 80	
1971-015AS		5196	USSR	25 FEB	22 OCT 90	
1971-015AU		5200	USSR	25 FEB	13 FEB 91	
1971-015AV		5201	USSR	25 FEB	09 AUG 77	
1971-015AX		5241	USSR	25 FEB	12 JUL 83	
1971-015AY		5243	USSR	25 FEB	15 DEC 88	
1971-015BA		5262	USSR	25 FEB	04 OCT 74	
1971-015BC		5273	USSR	25 FEB	24 APR 91	
1971-015BD		5274	USSR	25 FEB	19 AUG 80	
1971-015BH		5323	USSR	25 FEB	13 APR 81	
1971-015BJ		5324	USSR	25 FEB	19 NOV 80	
1971-015BK		5325	USSR	25 FEB	25 FEB 91	
1971-015BM		5336	USSR	25 FEB	12 FEB 92	
1971-015BP		5415	USSR	25 FEB	09 JUL 78	
1971-015BQ		5434	USSR	25 FEB	19 MAR 91	
1971-015BS		5526	USSR	25 FEB	23 JAN 89	
1971-015BU		5528	USSR	25 FEB	21 FEB 78	
1971-015BW		5530	USSR	25 FEB	11 AUG 89	
1971-015BY		5532	USSR	25 FEB	16 OCT 81	
1971-015CC		5534	USSR	25 FEB	28 DEC 90	
1971-015CE		5760	USSR	25 FEB	12 FEB 92	
1971-015CG		5762	USSR	25 FEB	05 OCT 81	
1971-015CH		6043	USSR	25 FEB	31 JUL 79	
1971-015CJ		6299	USSR	25 FEB	01 OCT 90	
1971-015CM		6749	USSR	25 FEB	11 JUN 74	
1971-015CP		10398	USSR	25 FEB	28 FEB 91	
1971-015CT		13944	USSR	25 FEB	24 MAR 89	
1971-015CU		15342	USSR	25 FEB	23 DEC 92	
1971-015CW		15343	USSR	25 FEB	17 SEP 89	
1971-015CX		15761	USSR	25 FEB	16 DEC 86	
1971-015CY		15777	USSR	25 FEB	31 JUL 91	
1971-015CZ		15787	USSR	25 FEB	29 MAY 90	
1971-015DC		17029	USSR	25 FEB	24 SEP 88	
1971-015DE		17664	USSR	25 FEB	05 JUN 89	
1971-015DF		18497	USSR	25 FEB	11 NOV 89	
1971-015DG		18521	USSR	25 FEB	06 NOV 88	
1971-015DH		18531	USSR	25 FEB	23 SEP 89	
1971-015DK		18548	USSR	05 FEB	12 MAR 88	
1971-015DL		18613	USSR	25 FEB	02 SEP 89	
1971-015DM		18692	USSR	25 FEB	23 APR 88	
1971-015DP		18976	USSR	25 FEB	03 JAN 90	
1971-015DQ		19064	USSR	25 FEB	02 FEB 89	
1971-015DT		19114	USSR	25 FEB	02 FEB 89	
1971-015DV		19829	USSR	25 FEB	27 FEB 91	
1971-0168		20091	USSR	25 FEB	20 JUN 89	
1971-016C		4967	USSR	26 FEB	01 MAR 71	
1971-016D		5008	USSR	26 FEB	12 MAY 71	
1971-016E		5039	USSR	26 FEB	28 MAR 71	
1971-017A		5040	USSR	26 FEB	23 MAR 71	
1971-017B		5003	USSR	03 MAR	17 MAR 71	
1971-017C		5047	USSR	03 MAR	08 MAR 71	

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INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1971-017D			5048		USSR	03 MAR	31 MAR 71	
1971-017E			5049		USSR	03 MAR	23 MAR 71	
1971-018A	MAO 2		5007		PRC	03 MAR	17 JUN 79	
1971-018B			5041		PRC	03 MAR	16 FEB 76	
1971-019A	EXPLORER 43		5043		US	13 MAR	02 OCT 74	
1971-019B			5044		US	13 MAR	22 MAY 71	
1971-019C			5045		US	13 MAR	15 MAR 75	
1971-019D			5046		US	13 MAR	19 APR 71	
1971-019E			5112		US	13 MAR	19 APR 71	
1971-022A			5059		US	24 MAR	12 APR 71	
1971-023A	COSMOS 401		5086		USSR	27 MAR	09 APR 71	
1971-023B			5087		USSR	27 MAR	02 APR 71	
1971-023C			5119		USSR	27 MAR	16 APR 71	
1971-023D			5120		USSR	27 MAR	12 APR 71	
1971-023E			5121		USSR	27 MAR	12 APR 71	
1971-025B			5107		USSR	01 APR	06 MAY 71	
1971-025C			5109		USSR	01 APR	06 APR 71	
1971-025D			5110		USSR	01 APR	05 APR 71	
1971-026A	COSMOS 403		5108		USSR	02 APR	14 APR 71	
1971-026B			5111		USSR	02 APR	05 APR 71	
1971-027A	COSMOS 404		5113		USSR	04 APR	04 APR 71	
1971-027B			5114		USSR	04 APR	12 APR 71	
1971-027C			5115		USSR	04 APR	06 APR 71	
1971-027D			5116		USSR	04 APR	07 APR 71	
1971-028C			5311		USSR	07 APR	12 MAY 74	
1971-029A	COSMOS 406		5124		USSR	14 APR	24 APR 71	
1971-029B			5125		USSR	14 APR	17 APR 71	
1971-029C			5127		USSR	14 APR	14 APR 71	
1971-029D			5169		USSR	14 APR	24 APR 71	
1971-029E			5170		USSR	14 APR	28 APR 71	
1971-029F			5179		USSR	14 APR	26 APR 71	
1971-029F			5128		FRANCE	15 APR	28 JAN 80	
1971-030A	TOURNESOL		5135		FRANCE	15 APR	09 JUL 79	
1971-030B			5139		FRANCE	15 APR	15 JUL 72	
1971-030C			5140		FRANCE	15 APR	15 JUL 77	
1971-030D			5141		FRANCE	15 APR	15 APR 76	
1971-030E			5164		FRANCE	15 APR	03 FEB 77	
1971-030F			5209		FRANCE	15 APR	13 JUL 72	
1971-030G			5268		FRANCE	15 APR	22 MAR 75	
1971-030H			5142		USSR	17 APR	10 JAN 91	
1971-031A	METEOR		5160		USSR	19 APR	11 OCT 71	
1971-032A	SALYUT 1		5161		USSR	19 APR	20 APR 71	
1971-032B			5162		USSR	19 APR	20 APR 71	
1971-032C			5163		USSR	19 APR	21 APR 71	
1971-032D			5166		USSR	19 APR	21 APR 71	
1971-032E			5167		USSR	19 APR	21 APR 71	
1971-032F			5168		USSR	19 APR	21 APR 71	
1971-032G			5171		US	22 APR	13 MAY 71	
1971-033A	SOYUZ 10		5172		USSR	22 APR	24 APR 71	
1971-034A			5173		USSR	22 APR	25 APR 71	
1971-034B	SAN MARCO 3		5176		ITALY	24 APR	29 NOV 71	
1971-036A			5177		USSR	24 APR	29 DEC 71	
1971-037A	COSMOS 408							

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971-037B		5178	USSR	24 APR	29 SEP 71	
1971-039C		5206	US	05 MAY	05 MAY 71	
1971-040A	COSMOS 410	5207	USSR	06 MAY	18 MAY 71	
1971-040B		5208	USSR	06 MAY	11 MAY 71	
1971-040C		5228	USSR	06 MAY	25 MAY 71	
1971-040D		5229	USSR	06 MAY	19 MAY 71	
1971-042A	COSMOS 419	5221	USSR	10 MAY	12 MAY 71	
1971-043A	COSMOS 420	5230	USSR	18 MAY	29 MAY 71	
1971-043B		5231	USSR	18 MAY	21 MAY 71	
1971-043C		5250	USSR	18 MAY	03 JUN 71	
1971-043E		5251	USSR	18 MAY	30 MAY 71	
1971-044A	COSMOS 421	5260	USSR	18 MAY	31 MAY 71	
1971-044B		5232	USSR	19 MAY	08 NOV 71	
1971-045B		5233	USSR	19 MAY	23 AUG 71	
1971-045C		5235	USSR	19 MAY	21 MAY 71	
1971-045D	CAPSULE	5236	USSR	19 MAY	21 MAY 71	
1971-047A	COSMOS 423	5739	USSR	19 MAY	27 NOV 71	
1971-047B		5246	USSR	27 MAY	26 NOV 71	
1971-048A	COSMOS 424	5247	USSR	27 MAY	29 AUG 71	
1971-048B		5248	USSR	28 MAY	10 JUN 71	
1971-048C		5249	USSR	28 MAY	03 JUN 71	
1971-048D		5286	USSR	28 MAY	15 JUN 71	
1971-048E		5287	USSR	28 MAY	11 JUN 71	
1971-049B		5292	USSR	28 MAY	31 MAY 71	
1971-049C		5255	USSR	28 MAY	31 MAY 71	
1971-049D		5256	USSR	28 MAY	31 MAY 71	
1971-049E	CAPSULE	5263	USSR	28 MAY	01 JUN 71	
1971-050A	COSMOS 425	5667	USSR	28 MAY	02 DEC 71	
1971-050B		5253	USSR	29 MAY	15 JAN 80	
1971-050C		5254	USSR	29 MAY	28 NOV 79	
1971-050D		5257	USSR	29 MAY	22 MAR 72	
1971-050E		5258	USSR	29 MAY	06 APR 72	
1971-050F		5259	USSR	29 MAY	09 JUN 72	
1971-052C		5722	USSR	04 JUN	14 MAY 72	
1971-052D		5723	USSR	04 JUN	21 SEP 74	
1971-052E		5782	USSR	04 JUN	22 JUN 73	
1971-052F		5956	USSR	04 JUN	08 DEC 77	
1971-053A		5283	USSR	06 JUN	29 JUN 71	
1971-053B		5284	USSR	06 JUN	07 JUN 71	
1971-054A	SOYUZ 11	5285	US	08 JUN	31 JAN 82	
1971-055A	COSMOS 427	5289	USSR	11 JUN	23 JUN 71	
1971-055B		5290	USSR	11 JUN	20 JUN 71	
1971-055C		5291	USSR	11 JUN	15 JUN 71	
1971-055D		5303	USSR	11 JUN	25 JUN 71	
1971-055E		5304	USSR	11 JUN	28 JUN 71	
1971-056A		5297	US	15 JUN	06 AUG 71	
1971-056B		5298	US	15 JUN	20 JUN 71	
1971-057A	COSMOS 428	5305	USSR	24 JUN	06 JUL 71	
1971-057B		5306	USSR	24 JUN	28 JUN 71	
1971-057C		5307	USSR	24 JUN	27 JUN 71	
1971-057D		5308	USSR	24 JUN	27 JUN 71	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECEASED OBJECTS							
1971-057E			5313	USSR	24 JUN	07 JUL 71	
1971-057F			5314	USSR	24 JUN	05 JUL 71	
1971-057G			5315	USSR	24 JUN	13 JUL 71	
1971-058A		EXPLORER 44	5317	US	08 JUL	15 DEC 79	
1971-058B			5318	US	08 JUL	28 JAN 76	
1971-058C			5319	US	08 JUL	22 SEP 72	
1971-058D			5320	US	08 JUL	07 NOV 75	
1971-059A		METEOR	5327	USSR	16 JUL	27 AUG 91	
1971-059C			5330	USSR	16 JUL	25 AUG 74	
1971-060A			5329	US	16 JUL	31 AUG 78	
1971-061A		COSMOS 429	5331	USSR	20 JUL	02 AUG 71	
1971-061B			5332	USSR	20 JUL	23 JUL 71	
1971-061C			5370	USSR	20 JUL	03 AUG 71	
1971-061D			5371	USSR	20 JUL	04 AUG 71	
1971-061E			5373	USSR	20 JUL	05 AUG 71	
1971-062A		COSMOS 430	5340	USSR	23 JUL	04 AUG 71	
1971-062B			5341	USSR	23 JUL	26 JUL 71	
1971-062C			5342	USSR	23 JUL	29 JUL 71	
1971-062D			5343	USSR	23 JUL	25 JUL 71	
1971-062E			5374	USSR	23 JUL	06 AUG 71	
1971-062F			5378	USSR	23 JUL	09 AUG 71	
1971-062G			5385	USSR	23 JUL	07 AUG 71	
1971-063A		APOLLO 15	5351	US	26 JUL	07 AUG 71	AJ*
1971-063B			5352	US	26 JUL	30 JUL 71	G*
1971-063C		LUNAR MODULE	5366	US	26 JUL	03 AUG 71	AM*
1971-064A		MOLNIYA 1-18	5367	USSR	28 JUL	19 JUL 77	
1971-064B			5353	USSR	28 JUL	29 AUG 71	
1971-064C			5354	USSR	28 JUL	24 AUG 71	
1971-064D			5368	USSR	28 JUL	14 AUG 77	
1971-064E			5355	USSR	28 JUL	04 AUG 71	
1971-064F			5356	USSR	28 JUL	02 AUG 71	
1971-065A		COSMOS 431	5364	USSR	30 JUL	11 AUG 71	
1971-065B			5365	USSR	30 JUL	04 AUG 71	
1971-065C			5369	USSR	30 JUL	05 AUG 71	
1971-066A		COSMOS 432	5379	USSR	05 AUG	18 AUG 71	
1971-066B			5380	USSR	05 AUG	09 AUG 71	
1971-066C			5381	USSR	05 AUG	08 AUG 71	
1971-066D			5436	USSR	05 AUG	21 AUG 71	
1971-066E			5437	USSR	05 AUG	18 AUG 71	
1971-067A		DV1-20	5394	US	07 AUG	28 AUG 71	
1971-067C		DAR-901	5382	US	07 AUG	31 JAN 72	
1971-067D		DAR-907	5383	US	07 AUG	19 SEP 71	
1971-067F			5396	US	07 AUG	11 JUN 72	
1971-067G			5401	US	07 AUG	14 APR 79	
1971-067H			5406	US	07 AUG	02 NOV 79	
1971-067P			5410	US	07 AUG	01 SEP 81	
1971-068A		COSMOS 433	5402	USSR	08 AUG	09 AUG 71	
1971-068B			5403	USSR	08 AUG	10 AUG 71	
1971-068C			5404	USSR	08 AUG	10 AUG 71	
1971-069A		COSMOS 434	5407	USSR	12 AUG	22 AUG 81	
1971-069B			5408	USSR	12 AUG	18 AUG 71	
1971-069D			5427	USSR	12 AUG	19 SEP 71	



# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971-069E		5428	USSR	12 AUG	28 OCT 71	
1971-070A		5409	US	12 AUG	03 SEP 71	
1971-070B		5452	US	12 AUG	04 SEP 71	
1971-072A	COSMOS 435	5441	USSR	27 AUG	28 JAN 72	
1971-072B		5442	USSR	27 AUG	20 NOV 71	
1971-073A	LUNA 18	5448	USSR	02 SEP	11 SEP 71	A *
1971-073C		5450	USSR	02 SEP	07 SEP 71	
1971-073D		5451	USSR	02 SEP	07 SEP 71	
1971-073E		5453	USSR	02 SEP	08 SEP 71	
1971-074A		5461	USSR	07 SEP	04 JAN 80	
1971-074B	COSMOS 436	5462	USSR	07 SEP	13 MAR 80	AS *
1971-074C		5463	USSR	07 SEP	12 MAY 72	
1971-074D		5464	USSR	07 SEP	22 JAN 72	
1971-074E		5465	USSR	07 SEP	09 MAY 72	
1971-074F		5470	USSR	07 SEP	11 MAY 72	
1971-074G		5583	USSR	07 SEP	30 JUL 72	
1971-074H		5584	USSR	07 SEP	19 APR 72	
1971-074J		5718	USSR	07 SEP	07 JUN 72	
1971-074K		5776	USSR	07 SEP	06 MAY 72	
1971-074L		5777	USSR	07 SEP	11 JUN 72	
1971-074M		5779	USSR	07 SEP	11 APR 72	
1971-074N		5780	USSR	07 SEP	05 JUL 72	
1971-074P		5781	USSR	07 SEP	27 MAY 72	
1971-074Q		5783	USSR	07 SEP	12 JUL 72	
1971-075A	COSMOS 437	5466	USSR	10 SEP	29 MAR 80	
1971-075B		5467	USSR	10 SEP	06 JAN 80	
1971-075C		8779	USSR	10 SEP	23 FEB 77	
1971-076A		5468	US	10 SEP	05 OCT 71	
1971-076B		5469	US	10 SEP	03 FEB 76	
1971-076C		6181	US	10 SEP	29 MAR 73	
1971-077A	COSMOS 438	5475	USSR	14 SEP	27 SEP 71	
1971-077B		5476	USSR	14 SEP	22 SEP 71	
1971-077C		5477	USSR	14 SEP	16 SEP 71	
1971-077D		5482	USSR	14 SEP	28 SEP 71	
1971-077E		5483	USSR	14 SEP	27 SEP 71	
1971-077F		5484	USSR	14 SEP	30 SEP 71	
1971-078A	COSMOS 439	5478	USSR	21 SEP	02 OCT 71	
1971-078B		5479	USSR	21 SEP	27 SEP 71	
1971-079A	COSMOS 440	5480	USSR	24 SEP	29 OCT 72	
1971-079B		5481	USSR	24 SEP	10 MAY 72	
1971-081A	COSMOS 441	5486	USSR	28 SEP	10 OCT 71	
1971-081B		5487	USSR	28 SEP	03 OCT 71	
1971-081C		5495	USSR	28 SEP	06 OCT 71	
1971-081D		5496	USSR	28 SEP	28 SEP 71	
1971-081E		5541	USSR	28 SEP	13 OCT 71	
1971-081F		5542	USSR	28 SEP	11 OCT 71	
1971-081G		5543	USSR	28 SEP	12 OCT 71	
1971-082B		5489	USSR	28 SEP	01 OCT 71	
1971-082D		5494	USSR	28 SEP	01 OCT 71	
1971-083A	OSO 7	5491	US	29 SEP	09 JUL 74	
1971-083B	TETR 4	5492	US	29 SEP	19 SEP 78	
1971-083C		5499	US	29 SEP	24 JAN 74	

INTER-NATIONAL DESIGNATION		DECEAYED OBJECTS		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971-083D	COSMOS 442	5610	US	29 SEP	20 DEC 71			
1971-084A		5493	USSR	29 SEP	12 OCT 71			
1971-084B		5497	USSR	29 SEP	05 OCT 71			
1971-084C		5544	USSR	29 SEP	14 OCT 71			
1971-084D		5545	USSR	29 SEP	17 OCT 71			
1971-084E	COSMOS 443	5546	USSR	29 SEP	19 OCT 71			
1971-085A		5536	USSR	07 OCT	19 OCT 71			
1971-085B		5537	USSR	07 OCT	13 OCT 71			
1971-085C		5538	USSR	07 OCT	14 OCT 71			
1971-085D		5539	USSR	07 OCT	10 OCT 71			
1971-085E	COSMOS 452	5561	USSR	07 OCT	21 OCT 71			
1971-085F		5562	USSR	07 OCT	30 OCT 71			
1971-088A		5558	USSR	14 OCT	27 OCT 71			
1971-088B		5559	USSR	14 OCT	18 OCT 71			
1971-088C		5577	USSR	14 OCT	28 OCT 71			
1971-088D	COSMOS 453	5578	USSR	14 OCT	31 OCT 71			
1971-088E		5579	USSR	14 OCT	30 OCT 71			
1971-088F		5590	USSR	14 OCT	16 NOV 71			
1971-090A		5563	USSR	19 OCT	19 MAR 72			
1971-090B		5564	USSR	19 OCT	01 JAN 72			
1971-090C		5596	USSR	19 OCT	24 DEC 71			
1971-091A		5565	US	21 OCT	21 JUL 72			
1971-091B		5566	US	21 OCT	18 NOV 71			
1971-091C		5570	US	21 OCT	09 FEB 72			
1971-091D		5576	US	21 OCT	23 JUL 83			
1971-091E		5602	US	21 OCT	01 JUL 74			
1971-092A		5575	US	23 OCT	17 NOV 71			
1971-092B		5606	US	23 OCT	17 NOV 71			
1971-093C		5582	UK	28 OCT	16 DEC 79			
1971-094A		COSMOS 454	5585	USSR	02 NOV	16 NOV 71		
1971-094B	5586		USSR	02 NOV	06 NOV 71			
1971-094C	5603		USSR	02 NOV	22 NOV 71			
1971-094D	5604		USSR	02 NOV	25 NOV 71			
1971-094E	5605		USSR	02 NOV	22 NOV 71			
1971-094F	EXPLORER 45	5607	USSR	02 NOV	21 NOV 71			
1971-096A		5598	US	15 NOV	10 JAN 92			
1971-096B		5973	US	15 NOV	03 MAR 87			
1971-096C		21859	US	15 NOV	27 JUN 92			
1971-097A		COSMOS 455	5608	USSR	17 NOV	09 APR 72		
1971-097B	5609		USSR	17 NOV	08 FEB 72			
1971-097C	5611		USSR	19 NOV	02 DEC 71			
1971-097D	COSMOS 456		5612	USSR	19 NOV	25 NOV 71		
1971-097E			5613	USSR	19 NOV	20 NOV 71		
1971-097F		5616	USSR	19 NOV	20 NOV 71			
1971-097G		5639	USSR	19 NOV	10 DEC 71			
1971-097H		5640	USSR	19 NOV	06 DEC 71			
1971-098A	MOLNIYA 2-1	5653	USSR	19 NOV	05 DEC 71			
1971-098B		5657	USSR	19 NOV	06 DEC 71			
1971-098C		5620	USSR	24 NOV	10 MAY 76			
1971-098D		5617	USSR	24 NOV	19 DEC 71			
1971-098E		5618	USSR	24 NOV	30 DEC 71			
1971-100C		5619	USSR	24 NOV	29 NOV 71			

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
	NAME								
1971-100E				5689	USSR	24 NOV	05 JAN 74		
1971-101A	COSMOS 458			5623	USSR	29 NOV	20 APR 72		
1971-101B				5624	USSR	29 NOV	14 FEB 72		
1971-102A	COSMOS 459			5625	USSR	29 NOV	27 DEC 71		
1971-102B				5626	USSR	29 NOV	11 DEC 71		
1971-102C				5627	USSR	29 NOV	04 DEC 71		
1971-103A	COSMOS 460			5628	USSR	30 NOV	05 MAR 80		
1971-103B				5629	USSR	30 NOV	04 MAY 80		
1971-103C				5630	USSR	30 NOV	21 NOV 72		
1971-104A	INTERCOSMOS 5			5641	USSR	02 DEC	07 APR 72		
1971-104B				5642	USSR	02 DEC	02 MAR 72		
1971-104C				5645	USSR	02 DEC	13 DEC 71		
1971-105A	COSMOS 461			5643	USSR	02 DEC	21 FEB 79		
1971-105B				5644	USSR	02 DEC	29 APR 79		
1971-105C				5647	USSR	02 DEC	03 APR 72		
1971-105D				5648	USSR	02 DEC	03 APR 72		
1971-106A	COSMOS 462			5646	USSR	03 DEC	04 APR 75		
1971-106B				5649	USSR	03 DEC	02 FEB 72		
1971-106C				5650	USSR	03 DEC	05 JAN 72		
1971-106D				5651	USSR	03 DEC	09 FEB 72		
1971-106E				5652	USSR	03 DEC	24 DEC 71		
1971-106F				5654	USSR	03 DEC	10 FEB 72		
1971-106G				5655	USSR	03 DEC	31 MAR 72		
1971-106H				5656	USSR	03 DEC	24 DEC 71		
1971-106J				5658	USSR	03 DEC	19 DEC 71		
1971-106K				5659	USSR	03 DEC	18 FEB 72		
1971-106L				5660	USSR	03 DEC	20 MAR 72		
1971-106M				5664	USSR	03 DEC	11 DEC 71		
1971-106N				5665	USSR	03 DEC	11 DEC 71		
1971-106P				5666	USSR	03 DEC	09 MAR 72		
1971-106Q				5668	USSR	03 DEC	26 JAN 72		
1971-106R				5672	USSR	03 DEC	13 DEC 71		
1971-106S				5673	USSR	03 DEC	18 MAR 72		
1971-106T				5798	USSR	03 DEC	02 MAR 72		
1971-106U				5799	USSR	03 DEC	18 MAR 72		
1971-106V				5800	USSR	03 DEC	08 MAR 72		
1971-106W				5801	USSR	03 DEC	06 FEB 73		
1971-106X				5802	USSR	03 DEC	29 OCT 72		
1971-106Y				5803	USSR	03 DEC	26 FEB 72		
1971-106Z				5831	USSR	03 DEC	16 MAR 72		
1971-106AA				5832	USSR	03 DEC	15 MAR 72		
1971-106AB				5833	USSR	03 DEC	25 FEB 72		
1971-106AC				5834	USSR	03 DEC	19 MAR 72		
1971-106AD				5866	USSR	03 DEC	11 JUL 72		
1971-106AE				5867	USSR	03 DEC	22 MAR 72		
1971-107A	COSMOS 463			5661	USSR	06 DEC	11 DEC 71		
1971-107B				5662	USSR	06 DEC	11 DEC 71		
1971-107C				5663	USSR	06 DEC	09 DEC 71		
1971-107D				5669	USSR	06 DEC	15 DEC 71		
1971-108A	COSMOS 464			5670	USSR	10 DEC	16 DEC 71		
1971-108B				5671	USSR	10 DEC	24 DEC 71		
1971-108C				5674	USSR	10 DEC	27 DEC 71		

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971-108D		5684	USSR	10 DEC	17 DEC 71	
1971-108E		5686	USSR	10 DEC	19 DEC 71	
1971-109A	ARIEL 4	5675	UK	11 DEC	12 DEC 78	
1971-109B		5676	US	11 DEC	09 AUG 78	
1971-109C		5677	US	11 DEC	18 JAN 73	
1971-109D		5979	US	11 DEC	20 OCT 72	
1971-112A	COSMOS 466	5687	USSR	16 DEC	27 DEC 71	
1971-112B		5688	USSR	16 DEC	21 DEC 71	
1971-112C		5725	USSR	16 DEC	03 JAN 72	
1971-112D		5726	USSR	16 DEC	31 DEC 71	
1971-113A	COSMOS 467	5704	USSR	17 DEC	18 APR 72	
1971-113B		5706	USSR	17 DEC	17 FEB 72	
1971-115A	MOLNIYA 1-19	5712	USSR	19 DEC	13 APR 77	
1971-115B		5713	USSR	19 DEC	22 SEP 77	
1971-115C		5708	USSR	19 DEC	26 JAN 72	
1971-115D		5710	USSR	19 DEC	27 JAN 72	
1971-117B		5737	USSR	25 DEC	09 FEB 72	
1971-117C		5738	USSR	25 DEC	07 JAN 72	
1971-118A	COSMOS 470	5727	USSR	27 DEC	06 JAN 72	
1971-118B		5728	USSR	27 DEC	30 DEC 71	
1971-118C		5740	USSR	27 DEC	06 JAN 72	
1971-118D		5741	USSR	27 DEC	06 JAN 72	
1971-118E		5742	USSR	27 DEC	07 JAN 72	
1971-119C		5962	USSR	27 DEC	19 FEB 78	
1971-119D		6163	USSR	27 DEC	02 OCT 73	
1971-119E		6190	USSR	27 DEC	25 OCT 77	
1971-120E		9800	USSR	29 DEC	24 APR 84	
1972 LAUNCHES						
1972-001A	COSMOS 471	5764	USSR	12 JAN	25 JAN 72	
1972-001B		5765	USSR	12 JAN	20 JAN 72	
1972-001C		5767	USSR	12 JAN	15 JAN 72	
1972-001D		5773	USSR	12 JAN	24 JAN 72	
1972-001E		5774	USSR	12 JAN	24 JAN 72	
1972-001F		5806	USSR	12 JAN	26 JAN 72	
1972-001G		5812	USSR	12 JAN	26 JAN 72	
1972-002A		5769	US	20 JAN	29 FEB 72	
1972-002B		5770	US	20 JAN	23 JAN 72	
1972-002C		5771	US	20 JAN	23 JAN 72	
1972-002D	COSMOS 472	5772	US	20 JAN	17 APR 79	
1972-004A		5804	USSR	25 JAN	18 AUG 72	
1972-004B		5805	USSR	25 JAN	06 MAY 72	
1972-005A	HEOS-A2	5814	ESRO	31 JAN	02 AUG 74	
1972-005B		5815	US	31 JAN	27 SEP 78	
1972-005C		5817	US	31 JAN	01 SEP 74	
1972-005D		5818	US	31 JAN	08 JUN 75	
1972-005E		5819	US	31 JAN	02 SEP 75	
1972-006A	COSMOS 473	5821	USSR	03 FEB	15 FEB 72	
1972-006B		5822	USSR	03 FEB	11 FEB 72	
1972-007A	LUNA 20	5835	USSR	14 FEB	25 FEB 72	
1972-007C		5837	USSR	14 FEB	17 FEB 72	

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INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
		NAME											
1972-007D		COSMOS 474		5838	USSR			14 FEB	17 FEB 72			R*	
1972-007E				5841	USSR			14 FEB	21 FEB 72				
1972-008A				5839	USSR			16 FEB	29 FEB 72				
1972-008B				5840	USSR			16 FEB	23 FEB 72				
1972-008C				5848	USSR			16 FEB	29 FEB 72				
1972-008D				5849	USSR			16 FEB	28 FEB 72				
1972-008E				5850	USSR			16 FEB	01 MAR 72				
1972-010C				5855	US			01 MAR	03 MAR 72				
1972-011A		COSMOS 476		5852	USSR			01 MAR	25 OCT 91				
1972-011C				20128	USSR			01 MAR	13 JAN 90				
1972-012C				5878	US			03 MAR	18 AUG 72				
1972-013A				5862	USSR			04 MAR	16 MAR 72				
1972-013B		COSMOS 477		5863	USSR			04 MAR	10 MAR 72				
1972-013C				5864	USSR			04 MAR	05 MAR 72				
1972-013D				5865	USSR			04 MAR	05 MAR 72				
1972-013E				5882	USSR			04 MAR	23 MAR 72				
1972-013F		TD-1A		5883	USSR			04 MAR	17 MAR 72				
1972-014A				5879	USSR			12 MAR	09 JAN 80				
1972-014B				5880	US			12 MAR	09 OCT 80				
1972-014C				5881	ESRO			12 MAR	22 MAY 72				
1972-014D		COSMOS 478		5884	ESRO			12 MAR	15 NOV 75				
1972-014E				5932	ESRO			12 MAR	27 OCT 75				
1972-015A				5885	USSR			15 MAR	28 MAR 72				
1972-015B				5886	USSR			15 MAR	21 MAR 72				
1972-015C				5887	USSR			15 MAR	17 MAR 72				
1972-015D				5909	USSR			15 MAR	28 MAR 72				
1972-015E				5910	USSR			15 MAR	30 MAR 72				
1972-015F				5915	USSR			15 MAR	30 MAR 72				
1972-016A		COSMOS 479		5888	US			17 MAR	11 APR 72				
1972-017A				5894	USSR			22 MAR	13 APR 80				
1972-017B				5895	USSR			22 MAR	12 MAY 80				
1972-017C				5901	USSR			22 MAR	26 NOV 72				
1972-017D		COSMOS 481		5902	USSR			22 MAR	01 NOV 72				
1972-017E				5911	USSR			22 MAR	05 SEP 72				
1972-020A				5906	USSR			25 MAR	02 SEP 72				
1972-020B				5908	USSR			25 MAR	11 JUN 72				
1972-021A		VENERA 8		5912	USSR			27 MAR	22 JUL 72				N*
1972-021B				5913	USSR			27 MAR	29 MAR 72				
1972-021C				5914	USSR			27 MAR	29 MAR 72				
1972-023A				5919	USSR			31 MAR	05 MAY 81				
1972-023B		COSMOS 482		5920	USSR			31 MAR	01 APR 72				
1972-023C				5921	USSR			27 MAR	02 APR 72				
1972-023D				5923	USSR			31 MAR	20 FEB 83				
1972-024A				5925	USSR			03 APR	15 APR 72				
1972-024B		COSMOS 483		5926	USSR			03 APR	11 APR 72				
1972-024C				5927	USSR			03 APR	12 APR 72				
1972-024D				5943	USSR			03 APR	19 APR 72				
1972-024E				5944	USSR			03 APR	18 APR 72				
1972-025A		MOLNIYA 1-20		5927	USSR			04 APR	30 JAN 74				
1972-025B				5928	FRANCE			04 APR	26 FEB 74				
1972-025C				5929	USSR			04 APR	28 APR 72				
1972-025D				5930	USSR			04 APR	08 MAY 72				

INTER - NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972-025E			5931	USSR	04 APR	10 APR 72	
1972-025F			5935	USSR	04 APR	10 APR 72	
1972-025G			5940	USSR	04 APR	08 MAR 74	
1972-026A		COSMOS 484	5933	USSR	06 APR	18 APR 72	
1972-026B			5934	USSR	06 APR	08 APR 72	
1972-026C			6002	USSR	06 APR	18 APR 72	
1972-027A		INTERCOSMOS 6	5936	USSR	07 APR	11 APR 72	
1972-027B			5937	USSR	07 APR	10 APR 72	
1972-028A		COSMOS 485	5938	USSR	11 APR	30 AUG 72	
1972-028B			5939	USSR	11 APR	16 JUN 72	
1972-029B			5942	USSR	14 APR	11 MAY 72	
1972-029C			5946	USSR	14 APR	17 MAY 72	
1972-029D			5949	USSR	14 APR	19 APR 72	
1972-029E			6008	USSR	14 APR	01 JUN 72	
1972-030A		COSMOS 486	5945	USSR	14 APR	27 APR 72	
1972-030B			5947	USSR	14 APR	17 APR 72	
1972-030C			5948	USSR	14 APR	22 APR 72	
1972-030D			6010	USSR	14 APR	27 APR 72	
1972-030E			6011	USSR	14 APR	26 APR 72	
1972-030F			6012	USSR	14 APR	28 APR 72	
1972-031A		APOLLO 16	6000	US	16 APR	27 APR 72	AJ*
1972-031B			6001	US	16 APR	19 APR 72	G*
1972-031D		APOLLO 16	6009	US	16 APR	29 MAY 72	G*
1972-032A			6003	US	19 APR	12 MAY 72	
1972-033A		COSMOS 487	6006	USSR	21 APR	24 SEP 72	
1972-033B			6007	USSR	21 APR	03 JUL 72	
1972-033C			6013	USSR	21 APR	29 APR 72	
1972-034A		COSMOS 488	6016	USSR	05 MAY	18 MAY 72	
1972-034B			6017	USSR	05 MAY	11 MAY 72	
1972-034C			6018	USSR	05 MAY	07 MAY 72	
1972-034D			6023	USSR	05 MAY	20 MAY 72	
1972-034E			6024	USSR	05 MAY	23 MAY 72	
1972-034F			6025	USSR	05 MAY	20 MAY 72	
1972-034G			6026	USSR	05 MAY	19 MAY 72	
1972-034H			6027	USSR	05 MAY	29 MAY 72	
1972-036A		COSMOS 490	6021	USSR	17 MAY	23 MAY 72	
1972-036B			6022	USSR	17 MAY	30 MAY 72	
1972-036C			6039	USSR	17 MAY	06 JUN 72	
1972-036D			6040	USSR	17 MAY	22 MAR 77	
1972-037A		MOLNIYA 2-2	6031	USSR	19 MAY	08 JUN 72	
1972-037B			6028	USSR	19 MAY	09 JUN 72	
1972-037C			6029	USSR	19 MAY	06 JUN 72	
1972-037D			6030	USSR	19 MAY	26 MAY 72	
1972-037E			6032	USSR	19 MAY	01 JUN 72	
1972-037F			6033	USSR	19 MAY	01 JUN 77	
1972-037G			6034	USSR	19 MAY	08 JUN 72	
1972-038A		COSMOS 491	6035	USSR	25 MAY	30 MAY 72	
1972-038B			6036	USSR	25 MAY	29 MAY 72	
1972-038C			6038	USSR	25 MAY	09 JUN 72	
1972-038D			6046	USSR	25 MAY	11 JUN 72	
1972-038E			6047	USSR	25 MAY	10 JUN 72	
1972-038F			6048	USSR	25 MAY		

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972-039A	COSMOS 492	6037	US	25 MAY	04 JUN 72	
1972-040A		6049	USSR	09 JUN	22 JUN 72	
1972-040B		6050	USSR	09 JUN	18 JUN 72	
1972-040C		6055	USSR	09 JUN	24 JUN 72	
1972-040D	COSMOS 493	6057	USSR	09 JUN	27 JUN 72	
1972-040E		6064	USSR	09 JUN	27 JUN 72	
1972-042A		6053	USSR	21 JUN	03 JUL 72	
1972-042B		6054	USSR	21 JUN	25 JUN 72	
1972-042C	COSMOS 495	6056	USSR	21 JUN	25 JUN 72	
1972-043E		6162	USSR	23 JUN	23 JUN 72	
1972-044A		6060	USSR	23 JUN	06 JUL 72	
1972-044B		6062	USSR	23 JUN	29 JUN 72	
1972-044C	COSMOS 496	6088	USSR	23 JUN	06 JUL 72	
1972-044D		6089	USSR	23 JUN	08 JUL 72	
1972-044E		6093	USSR	23 JUN	07 JUL 72	
1972-045A		6066	USSR	26 JUN	02 JUL 72	
1972-045B	PROGNDZ 2	6067	USSR	26 JUN	02 JUL 72	
1972-045C		6083	USSR	26 JUN	04 JUL 72	
1972-046A		6068	USSR	29 JUN	15 DEC 82	
1972-046B		6069	USSR	29 JUN	01 AUG 72	
1972-046C	INTERCOSMOS 7	6070	USSR	29 JUN	13 AUG 72	
1972-046D		6071	USSR	29 JUN	19 JUL 72	
1972-046E		6074	USSR	29 JUN	04 JUL 72	
1972-047A		6075	USSR	30 JUN	05 OCT 72	
1972-047B	COSMOS 497	6078	USSR	30 JUN	29 SEP 72	
1972-047C		6081	USSR	30 JUN	01 SEP 72	
1972-048A		6076	USSR	30 JUN	07 NOV 73	
1972-048B		6077	USSR	30 JUN	17 MAR 73	
1972-048C	COSMOS 498	6082	USSR	30 JUN	01 JAN 76	
1972-050A		6086	USSR	05 JUL	25 NOV 72	
1972-050B		6087	USSR	05 JUL	27 SEP 72	
1972-051A		6090	USSR	06 JUL	17 JUL 72	
1972-051B	COSMOS 499	6091	USSR	06 JUL	10 JUL 72	
1972-051C		6092	USSR	06 JUL	10 JUL 72	
1972-051D		6112	USSR	06 JUL	19 JUL 72	
1972-051E		6113	USSR	06 JUL	20 JUL 72	
1972-052A	COSMOS 500	6094	US	07 JUL	13 SEP 72	
1972-052B		6095	US	07 JUL	09 JUL 72	
1972-052C		6096	US	07 JUL	06 MAY 78	
1972-053A		6097	USSR	10 JUL	29 MAR 80	
1972-053B	COSMOS 501	6098	USSR	10 JUL	27 APR 80	
1972-053C		6101	USSR	10 JUL	25 MAR 73	
1972-053D		6102	USSR	10 JUL	15 APR 73	
1972-053E		6164	USSR	10 JUN	29 MAR 73	
1972-053F	COSMOS 501	6174	USSR	10 JUL	14 APR 73	
1972-054A		6099	USSR	12 JUL	09 MAY 74	
1972-054B		6100	USSR	12 JUL	10 JUN 73	
1972-054C		6103	USSR	12 JUL	05 SEP 72	
1972-054D	COSMOS 501	6104	USSR	12 JUL	03 AUG 72	
1972-054E		6107	USSR	12 JUL	07 AUG 72	
1972-054F		6108	USSR	12 JUL	06 AUG 72	
1972-054G		6109	USSR	12 JUL	25 JUL 72	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972-054H			6110	USSR	12 JUL	25 JUL 72	
1972-054J			6133	USSR	12 JUL	18 SEP 72	
1972-055A	COSMOS 502		6105	USSR	13 JUL	25 JUL 72	
1972-055B			6106	USSR	13 JUL	18 JUL 72	
1972-055C			6111	USSR	13 JUL	15 JUL 72	
1972-055D			6128	USSR	13 JUL	25 JUL 72	
1972-055E			6129	USSR	13 JUL	26 JUL 72	
1972-056A	COSMOS 503		6114	USSR	19 JUL	01 AUG 72	
1972-056B			6115	USSR	19 JUL	27 JUL 72	
1972-056C			6116	USSR	19 JUL	23 JUL 72	
1972-056D			6132	USSR	19 JUL	01 AUG 72	
1972-056E			6134	USSR	19 JUL	03 AUG 72	
1972-058B			6127	US	23 JUL	12 FEB 77	
1972-058D			7833	US	23 JUL	29 JUN 81	
1972-058E			7834	US	23 JUL	09 MAY 81	
1972-058F			7835	US	23 JUL	23 FEB 77	
1972-058H			7837	US	23 JUL	25 SEP 81	
1972-058L			7840	US	23 JUL	16 MAR 91	
1972-058M			7841	US	23 JUL	28 MAY 90	
1972-058P			7843	US	23 JUL	10 NOV 88	
1972-058R			7844	US	23 JUL	27 MAR 82	
1972-058U			7845	US	23 JUL	08 JAN 88	
1972-058AA			7848	US	23 JUL	20 JUL 89	
1972-058AC			7854	US	23 JUL	17 APR 89	
1972-058AE			7856	US	23 JUL	09 MAY 79	
1972-058AF			7858	US	23 JUL	28 DEC 81	
1972-058AG			7859	US	23 JUL	09 APR 80	
1972-058AH			7860	US	23 JUL	18 JUL 79	
1972-058AJ			7861	US	23 JUL	30 JUL 79	
1972-058AK			7862	US	23 JUL	11 JUL 80	
1972-058AL			7863	US	23 JUL	02 NOV 79	
1972-058AN			7864	US	23 JUL	14 AUG 81	
1972-058AQ			7866	US	23 JUL	26 AUG 90	
1972-058AR			7868	US	23 JUL	31 AUG 91	
1972-058AT			7869	US	23 JUL	05 JAN 90	
1972-058AU			7871	US	23 JUL	07 MAY 90	
1972-058AV			7872	US	23 JUL	02 MAR 82	
1972-058AX			7873	US	23 JUL	31 DEC 78	
1972-058AY			7876	US	23 JUL	25 MAR 89	
1972-058BA			7882	US	23 JUL	05 DEC 89	
1972-058BB			7883	US	23 JUL	13 NOV 80	
1972-058BC			7884	US	23 JUL	04 NOV 81	
1972-058BD			7886	US	23 JUL	23 NOV 75	
1972-058BE			7887	US	23 JUL	03 MAY 80	
1972-058BF			7888	US	23 JUL	17 MAR 80	
1972-058BH			7889	US	23 JUL	14 DEC 89	
1972-058BL			7891	US	23 JUL	10 OCT 92	
1972-058BM			7894	US	23 JUL	25 SEP 81	
1972-058BN			7895	US	23 JUL	25 APR 80	
1972-058BP			7896	US	23 JUL	24 OCT 79	
			7897	US	23 JUL	27 NOV 79	
						12 APR 80	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972-058BQ		7898	US	23 JUL	09 JUL 81	
1972-058BR		7899	US	23 JUL	23 JUL 81	
1972-058BT		7908	US	23 JUL	16 JUN 79	
1972-058BU		7909	US	23 JUL	06 DEC 79	
1972-058BV		7914	US	23 JUL	28 JUN 81	
1972-058BW		7928	US	23 JUL	09 MAY 80	
1972-058BX		7929	US	23 JUL	16 JUL 80	
1972-058BZ		7931	US	23 JUL	30 OCT 88	
1972-058CA		7932	US	23 JUL	22 MAY 82	
1972-058CC		7934	US	23 JUL	08 DEC 91	
1972-058CD		7935	US	23 JUL	17 APR 92	
1972-058CE		7936	US	23 JUL	07 SEP 80	
1972-058CH		7942	US	23 JUL	16 APR 93	
1972-058CL		7945	US	23 JUL	03 MAR 90	
1972-058CR		7961	US	23 JUL	12 JAN 80	
1972-058CS		7966	US	23 JUL	05 DEC 81	
1972-058CU		7973	US	23 JUL	14 NOV 78	
1972-058CV		7974	US	23 JUL	04 JUN 89	
1972-058CW		7975	US	23 JUL	31 MAR 80	
1972-058CY		7977	US	23 JUL	14 JAN 79	
1972-058CZ		7978	US	23 JUL	09 MAR 80	
1972-058DH		7980	US	23 JUL	18 FEB 79	
1972-058DD		8001	US	23 JUL	18 JUL 78	
1972-058DD		8002	US	23 JUL	27 AUG 80	
1972-058DE		8003	US	23 JUL	26 JAN 79	
1972-058DG		8005	US	23 JUL	10 SEP 91	
1972-058DH		8082	US	23 JUL	11 JAN 80	
1972-058DJ		8083	US	23 JUL	22 MAR 91	
1972-058DL		8085	US	23 JUL	23 DEC 78	
1972-058DM		8086	*US	23 JUL	12 APR 80	
1972-058DN		8087	US	23 JUL	05 MAY 77	
1972-058DP		8088	US	23 JUL	25 MAY 80	
1972-058DQ		8089	US	23 JUL	25 NOV 81	
1972-058DR		8090	US	23 JUL	13 JAN 80	
1972-058DS		8091	US	23 JUL	07 FEB 79	
1972-058DU		8093	US	23 JUL	18 JUL 78	
1972-058DV		8094	US	23 JUL	30 APR 80	
1972-058DW		8095	US	23 JUL	09 JUN 83	
1972-058DX		8096	US	23 JUL	28 JUN 76	
1972-058DY		8097	US	23 JUL	15 NOV 75	
1972-058DZ		8098	US	23 JUL	02 FEB 80	
1972-058EA		8099	US	23 JUL	27 APR 91	
1972-058EB		8123	US	23 JUL	13 JAN 89	
1972-058EC		8124	US	23 JUL	09 NOV 78	
1972-058ED		8125	US	23 JUL	12 OCT 75	
1972-058EE		8126	US	23 JUL	10 JUN 82	
1972-058EF		8313	US	23 JUL	25 MAR 82	
1972-058EH		8315	US	23 JUL	06 NOV 79	
1972-058EJ		8316	US	23 JUL	12 MAY 81	
1972-058EK		8317	US	23 JUL	08 MAR 81	
1972-058EL		8318	US	23 JUL	10 JUL 89	
1972-058EN		8320	US	23 JUL	15 APR 82	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972-058EP		8321	US	23 JUL	14 APR 79	
1972-058EO		8374	US	23 JUL	16 JUN 79	
1972-058ER		8375	US	23 JUL	27 MAY 81	
1972-058ES		8376	US	23 JUL	05 MAR 83	
1972-058ET		8377	US	23 JUL	22 NOV 82	
1972-058EU		8378	US	23 JUL	28 MAR 78	
1972-058EV		8379	US	23 JUL	09 MAR 81	
1972-058EW		8380	US	23 JUL	30 MAR 79	
1972-058EX		8381	US	23 JUL	23 SEP 79	
1972-058EY		8382	US	23 JUL	13 OCT 80	
1972-058EZ		8383	US	23 JUL	09 OCT 79	
1972-058FA		8384	US	23 JUL	07 DEC 79	
1972-058FB		8385	US	23 JUL	13 NOV 78	
1972-058FC		8386	US	23 JUL	08 DEC 93	
1972-058FD		8387	US	23 JUL	16 JUN 79	
1972-058FE		8388	US	23 JUL	25 JUN 81	
1972-058FF		8389	US	23 JUL	19 DEC 80	
1972-058FG		8390	US	23 JUL	07 MAR 91	
1972-058FH		8391	US	23 JUL	30 MAR 80	
1972-058FJ		8392	US	23 JUL	04 NOV 82	
1972-058FK		8393	US	23 JUL	16 MAR 77	
1972-058FL		8408	US	23 JUL	14 APR 79	
1972-058FN		8433	US	23 JUL	03 AUG 82	
1972-058FP		8434	US	23 JUL	31 JAN 76	
1972-058FR		8496	US	23 JUL	13 APR 81	
1972-058FS		8497	US	23 JUL	16 MAR 92	
1972-058FT		8498	US	23 JUL	03 NOV 80	
1972-058FU		8499	US	23 JUL	12 NOV 79	
1972-058FV		8500	US	23 JUL	28 JUN 79	
1972-058FW		8501	US	23 JUL	21 NOV 79	
1972-058FX		8502	US	23 JUL	26 SEP 78	
1972-058FY		8503	US	23 JUL	21 MAR 78	
1972-058FZ		8504	US	23 JUL	27 JAN 83	
1972-058GA		8505	US	23 JUL	23 FEB 77	
1972-058GB		8506	US	23 JUL	29 JAN 80	
1972-058GC		8507	US	23 JUL	24 AUG 80	
1972-058GD		8508	US	23 JUL	05 AUG 80	
1972-058GE		8509	US	23 JUL	26 JUL 78	
1972-058GF		8532	US	23 JUL	16 NOV 80	
1972-058GH		8534	US	23 JUL	16 FEB 79	
1972-058GJ		8535	US	23 JUL	22 JAN 78	
1972-058GK		8536	US	23 JUL	31 MAR 88	
1972-058GL		8537	US	23 JUL	02 NOV 77	
1972-058GP		8540	US	23 JUL	07 JAN 79	
1972-058GQ		8541	US	23 JUL	15 MAY 80	
1972-058GS		8543	US	23 JUL	29 JUL 88	
1972-058GU		8545	US	23 JUL	19 AUG 78	
1972-058GV		8568	US	23 JUL	15 MAR 86	
1972-058GW		8569	US	23 JUL	06 OCT 82	
1972-058GX		8570	US	23 JUL	05 MAR 81	
1972-058GY		8571	US	23 JUL	04 JUL 80	
1972-058GZ		8572	US	23 JUL		

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1972-058HA			8573		US	23 JUL	18 NOV 79	
1972-058HB			8574		US	23 JUL	16 JUN 79	
1972-058HC			8575		US	23 JUL	02 JAN 78	
1972-058HD			8576		US	23 JUL	06 FEB 80	
1972-058HF			8578		US	23 JUL	01 MAY 80	
1972-058HG			8579		US	23 JUL	24 JAN 81	
1972-058HH			8580		US	23 JUL	28 NOV 79	
1972-058HJ			8581		US	23 JUL	08 FEB 80	
1972-058HK			9669		US	23 JUL	24 FEB 79	
1972-058HL			9670		US	23 JUL	08 MAY 82	
1972-058HM			9671		US	23 JUL	14 MAR 80	
1972-058HN			9672		US	23 JUL	02 JUL 78	
1972-058HP			9673		US	23 JUL	16 JUN 79	
1972-058HR			9675		US	23 JUL	23 MAY 79	
1972-058HS			9676		US	23 JUL	28 JUL 81	
1972-058HU			9728		US	23 JUL	10 APR 79	
1972-058HV			9729		US	23 JUL	21 APR 77	
1972-058HW			9788		US	23 JUL	13 APR 81	
1972-058HX			9970		US	23 JUL	10 OCT 80	
1972-058HY			9971		US	23 JUL	21 NOV 89	
1972-058HZ			9972		US	23 JUL	29 JUN 79	
1972-058JA			13933		US	23 JUL	24 SEP 89	
1972-058JB			13934		US	23 JUL	05 AUG 86	
1972-058JC			13935		US	23 JUL	27 MAY 85	
1972-058JD			14476		US	23 JUL	23 APR 91	
1972-058JE			14874		US	23 JUL	05 OCT 89	
1972-058JF			14875		US	23 JUL	21 FEB 92	
1972-058JG			14876		US	23 JUL	18 DEC 86	
1972-058JH			14877		US	23 JUL	06 FEB 92	
1972-058JU			14878		US	23 JUL	16 AUG 89	
1972-058JL			15539		US	23 JUL	22 JUL 91	
1972-059A	COSMOS 512		6130		USSR	28 JUL	09 AUG 72	
1972-059B			6131		USSR	28 JUL	01 AUG 72	
1972-060A	COSMOS 513		6135		USSR	02 AUG	15 AUG 72	
1972-060B			6136		USSR	02 AUG	09 AUG 72	
1972-060C			6137		USSR	02 AUG	06 AUG 72	
1972-060D			6143		USSR	02 AUG	20 AUG 72	
1972-060E			6144		USSR	02 AUG	24 AUG 72	
1972-060F			6147		USSR	02 AUG	18 AUG 72	
1972-061A	EXPLORER 46		6142		US	13 AUG	02 NOV 79	
1972-061B			6145		US	13 AUG	05 MAR 79	
1972-061C			6146		US	13 AUG	25 MAY 78	
1972-063A	COSMOS 515		6150		USSR	18 AUG	31 AUG 72	
1972-063B			6151		USSR	18 AUG	23 AUG 72	
1972-063C			6165		USSR	18 AUG	03 SEP 72	
1972-063D			6166		USSR	18 AUG	04 SEP 72	
1972-063E			6171		USSR	18 AUG	02 SEP 72	
1972-064A	DENPA		6152		USSR	19 AUG	19 MAY 80	
1972-064B			6332		JAPAN	19 AUG	28 APR 81	
1972-065C			6156		US	21 AUG	07 JAN 82	
1972-066B			6196		USSR	21 AUG	25 SEP 72	
1972-066C			6199		USSR	21 AUG	20 OCT 72	

INTER-  
NATIONAL  
DESIGNATION

CATALOG  
NUMBER

**SOURCE**

## LAUNCH

## DECAY

## NOTES

1972-067A	COSMOS 517	6168	USSR	30 AUG	11 SEP 72
1972-067B		6169	USSR	30 AUG	08 SEP 72
1972-067C		6170	USSR	30 AUG	03 SEP 72
1972-068A		6172	US	01 SEP	30 SEP 72
1972-070A	COSMOS 518	6186	USSR	15 SEP	24 SEP 72
1972-070B		6187	USSR	15 SEP	22 SEP 72
1972-070C		6198	USSR	15 SEP	27 SEP 72
1972-071A		6188	USSR	16 SEP	26 SEP 72
1972-071B	COSMOS 519	6189	USSR	16 SEP	24 SEP 72
1972-071C		6191	USSR	16 SEP	19 SEP 72
1972-071D		6200	USSR	16 SEP	14 OCT 72
1972-071E		6201	USSR	16 SEP	30 SEP 72
1972-072B		6193	USSR	19 SEP	20 OCT 72
1972-072C		6194	USSR	19 SEP	05 NOV 72
1972-072D		6195	USSR	19 SEP	30 SEP 72
1972-073B		6202	US	23 SEP	26 SEP 72
1972-073C		6203	US	23 SEP	01 FEB 76
1972-073D		6204	US	23 SEP	01 FEB 76
1972-073E		6205	US	23 SEP	26 SEP 72
1972-075A	MOLNIYA 2-3	6208	USSR	30 SEP	12 JAN 78
1972-075B		6209	USSR	30 SEP	26 OCT 72
1972-075C		6211	USSR	30 SEP	01 NOV 72
1972-075D		6303	USSR	30 SEP	21 FEB 78
1972-076E		6224	US	02 OCT	10 DEC 80
1972-077A	COSMOS 522	6219	USSR	04 OCT	17 OCT 72
1972-077B		6220	USSR	04 OCT	14 OCT 72
1972-077C		6238	USSR	04 OCT	24 OCT 72
1972-077D		6247	USSR	04 OCT	20 OCT 72
1972-078A		6222	USSR	05 OCT	07 MAR 73
1972-078B	COSMOS 523	6223	USSR	05 OCT	07 DEC 72
1972-078C		6225	USSR	05 OCT	17 NOV 72
1972-078D		6226	USSR	05 OCT	08 NOV 72
1972-078E		6239	USSR	05 OCT	17 NOV 72
1972-078F		6240	USSR	05 OCT	22 NOV 72
1972-078G		6241	USSR	05 OCT	12 NOV 72
1972-078H		6242	USSR	05 OCT	25 OCT 72
1972-078J		6243	USSR	05 OCT	19 OCT 72
1972-078K		6244	USSR	05 OCT	12 NOV 72
1972-078L		6245	USSR	05 OCT	22 OCT 72
1972-078M		6246	USSR	05 OCT	23 OCT 72
1972-079A		6227	US	10 OCT	08 JAN 73
1972-079B		6228	US	10 OCT	12 OCT 72
1972-080A	COSMOS 524	6229	USSR	11 OCT	25 MAR 73
1972-080B		6230	USSR	11 OCT	20 DEC 72
1972-081A	MOLNIYA 1-21	6231	USSR	14 OCT	01 NOV 77
1972-081B		6232	USSR	14 OCT	04 NOV 72
1972-081C		6233	USSR	14 OCT	16 NOV 72
1972-081D		6234	USSR	14 OCT	14 NOV 72
1972-081E		6304	USSR	14 OCT	16 MAR 75
1972-083A	COSMOS 525	6248	USSR	18 OCT	29 OCT 72
1972-083B		6249	USSR	18 OCT	22 OCT 72
1972-083C		6258	USSR	18 OCT	01 NOV 72

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972-083D		6259	USSR	18 OCT	29 OCT 72	
1972-084A	COSMOS 526	6254	USSR	25 OCT	08 APR 73	
1972-084B		6255	USSR	25 OCT	08 JAN 73	
1972-086A	COSMOS 527	6260	USSR	31 OCT	13 NOV 72	
1972-086B		6261	USSR	31 OCT	08 NOV 72	
1972-086C		6263	USSR	31 OCT	03 NOV 72	
1972-086D		6280	USSR	31 OCT	15 NOV 72	
1972-086E		6281	USSR	31 OCT	18 NOV 72	
1972-086F		6284	USSR	31 OCT	18 NOV 72	
1972-088A	COSMOS 536	6272	USSR	03 NOV	20 JUL 80	
1972-088B		6273	USSR	03 NOV	19 JUL 80	
1972-088C		6274	USSR	03 NOV	19 DEC 73	
1972-088D		6700	USSR	03 NOV	28 FEB 83	
1972-090B		6279	US	10 NOV	07 MAY 73	
1972-091A	EXPLORER 48	6282	US	15 NOV	20 AUG 80	
1972-091B		6800	US	15 NOV	01 MAY 79	
1972-092A	ESRO IV	6285	ESRO	22 NOV	15 APR 74	
1972-092B		6286	US	22 NOV	09 JUL 73	
1972-093A	COSMOS 537	6287	USSR	25 NOV	07 DEC 72	
1972-093B		6288	USSR	25 NOV	02 DEC 72	
1972-094A	INTERCOSMOS 8	6291	USSR	30 NOV	02 MAR 73	
1972-094B		6292	USSR	30 NOV	12 JAN 73	
1972-094C		6293	USSR	30 NOV	02 JAN 73	
1972-095A	MOLNIYA 1-22	6294	USSR	02 DEC	11 FEB 76	
1972-095B		6295	USSR	02 DEC	10 JAN 73	
1972-095C		6296	USSR	02 DEC	02 FEB 73	
1972-095D		6297	USSR	02 DEC	12 DEC 72	
1972-095E		6298	USSR	02 DEC	11 DEC 72	
1972-095F		6322	USSR	02 DEC	25 FEB 75	
1972-096A	APOLLO 17	6300	US	07 DEC	19 DEC 72	AJ*
1972-096B		6301	US	07 DEC	10 DEC 72	G*
1972-096C	LUNAR MODULE	6307	US	07 DEC	15 DEC 72	AM*
1972-098A	MOLNIYA 2-4	6308	USSR	12 DEC	22 JAN 75	
1972-098B		6309	USSR	12 DEC	13 JAN 73	
1972-098C		6310	USSR	12 DEC	19 JAN 73	
1972-098D		6341	USSR	12 DEC	07 OCT 74	
1972-099A	COSMOS 538	6311	USSR	14 DEC	27 DEC 72	
1972-099B		6312	USSR	14 DEC	22 DEC 72	
1972-099C		6314	USSR	14 DEC	18 DEC 72	
1972-099D		6325	USSR	14 DEC	04 JAN 73	
1972-099E		6331	USSR	14 DEC	04 JAN 73	
1972-100A	AEROS	6315	FRG	16 DEC	22 AUG 73	
1972-100B		6316	US	16 DEC	25 FEB 73	
1972-103A		6321	US	21 DEC	23 JAN 73	
1972-105A	COSMOS 541	6326	USSR	27 DEC	08 JAN 73	
1972-105B		6327	USSR	27 DEC	12 JAN 73	
1972-105C		6336	USSR	27 DEC	11 JAN 73	
1972-105D		6337	USSR	27 DEC	09 JAN 73	
1972-105E		6338	USSR	27 DEC	12 JAN 73	
1972-105F		6342	USSR	27 DEC	15 JAN 73	
1972-106A	COSMOS 542	6328	USSR	28 DEC	09 OCT 83	
1972-106B		6329	USSR	28 DEC	23 JUN 88	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES						
1973-001A	LUNA 21	6333	USSR	08 JAN	15 JAN 73	R*
1973-001B		6334	USSR	08 JAN	12 JAN 73	
1973-001C		6335	USSR	08 JAN	13 JAN 73	
1973-002A	COSMOS 543	6339	USSR	11 JAN	24 JAN 73	
1973-002B		6340	USSR	11 JAN	22 JAN 73	
1973-002C		6346	USSR	11 JAN	28 JAN 73	
1973-002D		6347	USSR	11 JAN	25 JAN 73	
1973-003A	COSMOS 544	6343	USSR	20 JAN	15 JUN 80	
1973-003B		6344	USSR	20 JAN	18 MAY 80	
1973-003C		6345	USSR	20 JAN	14 OCT 75	
1973-003D		6352	USSR	20 JAN	21 MAR 75	
1973-004A	COSMOS 545	6348	USSR	24 JAN	31 JUL 73	
1973-004B		6349	USSR	24 JAN	21 APR 73	
1973-005B		6351	USSR	26 JAN	02 MAR 88	
1973-006A	COSMOS 547	6353	USSR	01 FEB	13 FEB 73	
1973-006B		6354	USSR	01 FEB	09 FEB 73	
1973-006C		6355	USSR	01 FEB	02 FEB 73	
1973-007A	MDLNIYA 1-23	6356	USSR	03 FEB	23 OCT 77	
1973-007B		6357	USSR	03 FEB	13 MAR 73	
1973-007C		6358	USSR	03 FEB	18 MAR 73	
1973-007D		6363	USSR	03 FEB	10 MAR 73	
1973-007E		6369	USSR	08 FEB	04 AUG 78	
1973-008A	COSMOS 548	6359	USSR	08 FEB	21 FEB 73	
1973-008B		6360	USSR	08 FEB	16 FEB 73	
1973-008C		6361	USSR	08 FEB	09 FEB 73	
1973-008D		6367	USSR	08 FEB	25 FEB 73	
1973-008E		6369	USSR	08 FEB	23 FEB 73	
1973-008F		6370	USSR	08 FEB	26 FEB 73	
1973-008G		6371	USSR	08 FEB	23 FEB 73	
1973-009B		6365	USSR	15 FEB	22 MAR 73	
1973-009C		6366	USSR	15 FEB	23 MAR 73	
1973-010A	COSMOS 549	6373	USSR	28 FEB	29 JUN 80	
1973-010B		6374	USSR	28 FEB	17 SEP 80	
1973-010C		6375	USSR	28 FEB	24 JUN 74	
1973-011A	COSMOS 550	6376	USSR	01 MAR	11 MAR 73	
1973-011B		6377	USSR	01 MAR	09 MAR 73	
1973-011C		6384	USSR	01 MAR	18 MAR 73	
1973-011D		6385	USSR	01 MAR	12 MAR 73	
1973-011E		6386	USSR	01 MAR	12 MAR 73	
1973-011F		6387	USSR	01 MAR	12 MAR 73	
1973-012A	COSMOS 551	6378	USSR	06 MAR	20 MAR 73	
1973-012B		6379	USSR	06 MAR	13 MAR 73	
1973-012C		6381	USSR	06 MAR	07 MAR 73	
1973-012D		6389	USSR	06 MAR	22 MAR 73	
1973-012E		6390	USSR	06 MAR	19 MAR 73	
1973-013B		6388	US	06 MAR	04 JUN 74	
1973-014A		6382	US	09 MAR	19 MAY 73	
1973-014B		6383	US	09 MAR	11 MAR 73	
1973-016A	COSMOS 552	6394	USSR	22 MAR	03 APR 73	

INTER - NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-016B			6395	USSR	22 MAR	30 MAR 73	
1973-016C			6397	USSR	22 MAR	09 APR 73	
1973-017A	SALYUT 2		6398	USSR	03 APR	28 MAY 73	
1973-017B			6399	USSR	03 APR	06 APR 73	AU*
1973-017C			6400	USSR	03 APR	10 APR 73	
1973-017D			6401	USSR	03 APR	09 APR 73	
1973-017E			6402	USSR	03 APR	12 APR 73	
1973-017F			6403	USSR	03 APR	24 APR 73	
1973-017G			6404	USSR	03 APR	30 APR 73	
1973-017H			6405	USSR	03 APR	06 APR 73	
1973-017J			6406	USSR	03 APR	26 APR 73	
1973-017K			6407	USSR	03 APR	22 APR 73	
1973-017L			6408	USSR	03 APR	08 APR 73	
1973-017M			6409	USSR	03 APR	15 APR 73	
1973-017N			6410	USSR	03 APR	06 APR 73	
1973-017P			6411	USSR	03 APR	08 APR 73	
1973-017Q			6412	USSR	03 APR	08 APR 73	
1973-017R			6413	USSR	03 APR	06 APR 73	
1973-017S			6414	USSR	03 APR	12 APR 73	
1973-017T			6415	USSR	03 APR	08 APR 73	
1973-017U			6416	USSR	03 APR	09 APR 73	
1973-017V			6417	USSR	03 APR	10 APR 73	
1973-017W			6422	USSR	03 APR	13 MAY 73	
1973-017X			6423	USSR	03 APR	17 APR 73	
1973-017Y			6424	USSR	03 APR	12 MAY 73	
1973-017Z			6429	USSR	03 APR	06 JAN 79	
1973-017AA			6430	USSR	03 APR	24 APR 73	
1973-017AB			6431	USSR	03 APR	17 APR 73	
1973-018A	MOLNIYA 2-5		6418	USSR	05 APR	06 APR 73	
1973-018B			6419	USSR	05 APR	24 APR 73	
1973-018C			6420	USSR	05 APR	30 APR 73	
1973-018D			6439	USSR	05 APR	05 DEC 79	
1973-019C			6426	US	06 APR	04 NOV 74	
1973-020A	COSMOS 553		6427	USSR	12 APR	11 NOV 73	
1973-020B			6428	USSR	12 APR	07 AUG 73	
1973-021A	COSMOS 554		6432	USSR	19 APR	27 MAY 73	
1973-021B			6434	USSR	19 APR	26 APR 73	
1973-021C			6436	USSR	19 APR	25 APR 73	
1973-021D			6442	USSR	19 APR	30 APR 73	
1973-021E			6443	USSR	19 APR	01 MAY 73	
1973-021F			6448	USSR	19 APR	24 JUN 73	
1973-021G			6449	USSR	19 APR	21 MAY 73	
1973-021H			6450	USSR	19 APR	16 MAY 73	
1973-021J			6451	USSR	19 APR	24 MAY 73	
1973-021K			6452	USSR	19 APR	16 MAY 73	
1973-021L			6453	USSR	19 APR	20 MAY 73	
1973-021M			6454	USSR	19 APR	27 MAY 73	
1973-021N			6455	USSR	19 APR	12 MAY 73	
1973-021P			6456	USSR	19 APR	17 MAY 73	
1973-021Q			6457	USSR	19 APR	16 MAY 73	
1973-021R			6458	USSR	19 APR	09 JUN 73	
1973-021S			6459	USSR	19 APR	16 MAY 73	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-021T		6460	USSR	19 APR	12 MAY 73	
1973-021U		6461	USSR	19 APR	20 MAY 73	
1973-021V		6462	USSR	19 APR	12 MAY 73	
1973-021W		6463	USSR	19 APR	21 MAY 73	
1973-021X		6464	USSR	19 APR	18 MAY 73	
1973-021Y		6465	USSR	19 APR	27 MAY 73	
1973-021Z		6466	USSR	19 APR	04 JUN 73	
1973-021AA		6467	USSR	19 APR	28 MAY 73	
1973-021AB		6468	USSR	19 APR	06 JUL 73	
1973-021AC		6469	USSR	19 APR	29 JAN 74	
1973-021AD		6470	USSR	19 APR	03 JUL 73	
1973-021AE		6471	USSR	19 APR	29 NOV 73	
1973-021AF		6472	USSR	19 APR	22 MAY 73	
1973-021AG		6473	USSR	19 APR	30 MAY 73	
1973-021AH		6474	USSR	19 APR	17 MAY 73	
1973-021AJ		6475	USSR	19 APR	01 JUN 73	
1973-021AK		6476	USSR	19 APR	19 MAY 73	
1973-021AL		6477	USSR	19 APR	16 MAY 73	
1973-021AM		6478	USSR	19 APR	13 MAY 73	
1973-021AN		6479	USSR	19 APR	27 MAY 73	
1973-021AP		6480	USSR	19 APR	15 MAY 73	
1973-021AQ		6481	USSR	19 APR	18 MAY 73	
1973-021AR		6482	USSR	19 APR	19 MAY 73	
1973-021AS		6483	USSR	19 APR	15 MAY 73	
1973-021AT		6484	USSR	19 APR	08 JUN 73	
1973-021AU		6485	USSR	19 APR	19 MAY 73	
1973-021AV		6486	USSR	19 APR	19 MAY 73	
1973-021AW		6487	USSR	19 APR	18 MAY 73	
1973-021AX		6488	USSR	19 APR	21 MAY 73	
1973-021AY		6489	USSR	19 APR	13 JUN 73	
1973-021AZ		6490	USSR	19 APR	14 AUG 73	
1973-021BA		6491	USSR	19 APR	14 JUL 73	
1973-021BB		6492	USSR	19 APR	30 MAY 73	
1973-021BC		6493	USSR	19 APR	07 JUL 73	
1973-021BD		6494	USSR	19 APR	27 MAY 73	
1973-021BE		6495	USSR	19 APR	25 MAY 73	
1973-021BF		6496	USSR	19 APR	09 JUN 73	
1973-021BG		6497	USSR	19 APR	27 MAY 73	
1973-021BH		6500	USSR	19 APR	27 MAY 73	
1973-021BJ		6501	USSR	19 APR	25 JUN 73	
1973-021BK		6502	USSR	19 APR	02 JAN 74	
1973-021BL		6503	USSR	19 APR	01 JUL 73	
1973-021BM		6504	USSR	19 APR	18 MAY 73	
1973-021BN		6505	USSR	19 APR	21 MAY 73	
1973-021BP		6506	USSR	19 APR	17 MAY 73	
1973-021BQ		6507	USSR	19 APR	15 MAY 73	
1973-021BR		6508	USSR	19 APR	19 MAY 73	
1973-021BS		6509	USSR	19 APR	18 JUN 73	
1973-021BT		6510	USSR	19 APR	06 JUN 73	
1973-021BU		6511	USSR	19 APR	12 AUG 73	
1973-021BV		6512	USSR	19 APR	26 MAY 73	
1973-021BW		6513	USSR	19 APR	26 MAY 73	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-021BX		6514	USSR	19 APR	18 MAY 73	
1973-021BY		6515	USSR	19 APR	28 MAY 73	
1973-021BZ		6516	USSR	19 APR	14 JUN 73	
1973-021CA		6517	USSR	19 APR	26 MAY 73	
1973-021CB		6518	USSR	19 APR	23 MAY 73	
1973-021CC		6519	USSR	19 APR	03 JUL 73	
1973-021CD		6520	USSR	19 APR	25 MAY 73	
1973-021CE		6521	USSR	19 APR	06 JUN 73	
1973-021CF		6522	USSR	19 APR	25 MAY 73	
1973-021CG		6523	USSR	19 APR	22 MAY 73	
1973-021CH		6524	USSR	19 APR	09 JUN 73	
1973-021CJ		6525	USSR	19 APR	16 SEP 73	
1973-021CK		6526	USSR	19 APR	26 MAY 73	
1973-021CL		6527	USSR	19 APR	26 MAY 73	
1973-021CM		6528	USSR	19 APR	26 MAY 73	
1973-021CN		6529	USSR	19 APR	26 MAY 73	
1973-021CP		6530	USSR	19 APR	25 MAY 73	
1973-021CQ		6531	USSR	19 APR	02 JUN 73	
1973-021CR		6532	USSR	19 APR	25 JUN 73	
1973-021CS		6533	USSR	19 APR	17 MAY 73	
1973-021CT		6534	USSR	19 APR	22 MAY 73	
1973-021CU		6535	USSR	19 APR	26 MAY 73	
1973-021CV		6536	USSR	19 APR	22 MAY 73	
1973-021CW		6537	USSR	19 APR	30 JUN 73	
1973-021CX		6538	USSR	19 APR	22 MAY 73	
1973-021CY		6539	USSR	19 APR	25 MAY 73	
1973-021CZ		6540	USSR	19 APR	24 MAY 73	
1973-021DA		6541	USSR	19 APR	31 DEC 73	
1973-021DB		6542	USSR	19 APR	27 MAY 73	
1973-021DC		6543	USSR	19 APR	07 MAY 73	
1973-021DD		6544	USSR	19 APR	07 MAY 73	
1973-021DE		6545	USSR	19 APR	07 MAY 73	
1973-021DF		6546	USSR	19 APR	07 MAY 73	
1973-021DG		6547	USSR	19 APR	07 MAY 73	
1973-021DH		6548	USSR	19 APR	07 MAY 73	
1973-021DJ		6549	USSR	19 APR	07 MAY 73	
1973-021DK		6550	USSR	19 APR	07 MAY 73	
1973-021DL		6551	USSR	19 APR	07 MAY 73	
1973-021DM		6552	USSR	19 APR	07 MAY 73	
1973-021DN		6553	USSR	19 APR	07 MAY 73	
1973-021DP		6554	USSR	19 APR	07 MAY 73	
1973-021DQ		6555	USSR	19 APR	07 MAY 73	
1973-021DR		6556	USSR	19 APR	07 MAY 73	
1973-021DS		6557	USSR	19 APR	07 MAY 73	
1973-021DT		6558	USSR	19 APR	07 MAY 73	
1973-021DU		6559	USSR	19 APR	07 MAY 73	
1973-021DV		6560	USSR	19 APR	07 MAY 73	
1973-021DW		6561	USSR	19 APR	07 MAY 73	
1973-021DX		6562	USSR	19 APR	07 MAY 73	
1973-021DY		6563	USSR	19 APR	07 MAY 73	
1973-021DZ		6564	USSR	19 APR	07 MAY 73	
1973-021EA		6565	USSR	19 APR	07 MAY 73	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
NAME													
1973-021EB		6566		USSR		19 APR		07 MAY 73					
1973-021EC		6567		USSR		19 APR		07 MAY 73					
1973-021ED		6568		USSR		19 APR		07 MAY 73					
1973-021EE		6569		USSR		19 APR		07 MAY 73					
1973-021EF		6570		USSR		19 APR		07 MAY 73					
1973-021EG		6571		USSR		19 APR		07 MAY 73					
1973-021EH		6572		USSR		19 APR		07 MAY 73					
1973-021EU		6573		USSR		19 APR		07 MAY 73					
1973-021EK		6574		USSR		19 APR		07 MAY 73					
1973-021EL		6575		USSR		19 APR		07 MAY 73					
1973-021EM		6576		USSR		19 APR		07 MAY 73					
1973-021EN		6577		USSR		19 APR		07 MAY 73					
1973-021EP		6578		USSR		19 APR		07 MAY 73					
1973-021EQ		6579		USSR		19 APR		07 MAY 73					
1973-021ER		6580		USSR		19 APR		07 MAY 73					
1973-021ES		6581		USSR		19 APR		07 MAY 73					
1973-021ET		6582		USSR		19 APR		07 MAY 73					
1973-021EU		6583		USSR		19 APR		07 MAY 73					
1973-021EV		6584		USSR		19 APR		07 MAY 73					
1973-021EW		6585		USSR		19 APR		07 MAY 73					
1973-021EX		6586		USSR		19 APR		07 MAY 73					
1973-021EY		6587		USSR		19 APR		07 MAY 73					
1973-021EZ		6588		USSR		19 APR		07 MAY 73					
1973-021FA		6589		USSR		19 APR		07 MAY 73					
1973-021FB		6590		USSR		19 APR		07 MAY 73					
1973-021FC		6591		USSR		19 APR		07 MAY 73					
1973-021FD		6592		USSR		19 APR		07 MAY 73					
1973-021FE		6593		USSR		19 APR		07 MAY 73					
1973-021FF		6594		USSR		19 APR		07 MAY 73					
1973-021FG		6595		USSR		19 APR		07 MAY 73					
1973-021FH		6596		USSR		19 APR		07 MAY 73					
1973-021FJ		6597		USSR		19 APR		07 MAY 73					
1973-021FK		6598		USSR		19 APR		07 MAY 73					
1973-021FL		6599		USSR		19 APR		07 MAY 73					
1973-021FM		6600		USSR		19 APR		07 MAY 73					
1973-021FN		6601		USSR		19 APR		07 MAY 73					
1973-021FP		6602		USSR		19 APR		07 MAY 73					
1973-021FQ		6603		USSR		19 APR		07 MAY 73					
1973-021FR		6604		USSR		19 APR		07 MAY 73					
1973-021FS		6605		USSR		19 APR		07 MAY 73					
1973-021FT		6606		USSR		19 APR		07 MAY 73					
1973-021FU		6607		USSR		19 APR		07 MAY 73					
1973-021FV		6608		USSR		19 APR		07 MAY 73					
1973-021FW		6609		USSR		19 APR		07 MAY 73					
1973-021FX		6610		USSR		19 APR		07 MAY 73					
1973-021FY		6611		USSR		19 APR		07 MAY 73					
1973-021FZ		6612		USSR		19 APR		07 MAY 73					
1973-021GA		6613		USSR		19 APR		07 MAY 73					
1973-021GB		6614		USSR		19 APR		07 MAY 73					
1973-021GC		6615		USSR		19 APR		07 MAY 73					
1973-021GD		6616		USSR		19 APR		07 MAY 73					
1973-021GE		6617		USSR		19 APR		07 MAY 73					

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-021GF		6618	USSR	19 APR	07 MAY 73	
1973-021GG		6619	USSR	19 APR	07 MAY 73	
1973-021GH		6620	USSR	19 APR	07 MAY 73	
1973-021GU		6621	USSR	19 APR	07 MAY 73	
1973-021GK		6622	USSR	19 APR	07 MAY 73	
1973-021GL		6623	USSR	19 APR	07 MAY 73	
1973-021GM		6624	USSR	19 APR	07 MAY 73	
1973-021GN		6625	USSR	19 APR	07 MAY 73	
1973-021GP		6626	USSR	19 APR	07 MAY 73	
1973-021GO		6627	USSR	19 APR	07 MAY 73	
1973-021GR		6628	USSR	19 APR	07 MAY 73	
1973-021GS		6629	USSR	19 APR	07 MAY 73	
1973-021GT		6669	USSR	19 APR	23 SEP 73	
1973-021GT		6670	USSR	19 APR	26 JUN 73	
1973-021GV		6671	USSR	19 APR	23 AUG 73	
1973-021GW		6672	USSR	19 APR	25 JUN 73	
1973-021GX		6673	USSR	19 APR	15 JUN 73	
1973-021GY		6692	USSR	19 APR	24 JUN 73	
1973-021GZ		6693	USSR	19 APR	02 SEP 73	
1973-021HA		6737	USSR	19 APR	14 OCT 73	
1973-021HB		6738	USSR	19 APR	02 SEP 73	
1973-021HC		6739	USSR	19 APR	14 OCT 73	
1973-021HD		6740	USSR	19 APR	02 SEP 73	
1973-021HE		6785	USSR	19 APR	20 SEP 73	
1973-022A	INTERCOSMOS 9	6433	USSR	19 APR	18 NOV 73	
1973-022B		6435	USSR	19 APR	15 OCT 73	
1973-022B		6438	US	20 APR	17 OCT 73	
1973-024A	COSMOS 555	6440	USSR	25 APR	18 OCT 75	
1973-024B		6441	USSR	25 APR	07 MAY 73	
1973-024C		6444	USSR	25 APR	28 APR 73	
1973-024D		6445	USSR	25 APR	06 MAY 73	
1973-025A	COSMOS 556	6446	USSR	05 MAY	09 MAY 73	
1973-025B		6447	USSR	05 MAY	14 MAY 73	
1973-025C		6630	USSR	05 MAY	08 MAY 73	
1973-025D		6631	USSR	05 MAY	24 MAY 73	
1973-025E		6632	USSR	05 MAY	15 MAY 73	
1973-026A	COSMOS 557	6498	USSR	11 MAY	17 MAY 73	
1973-026B		6499	USSR	11 MAY	22 MAY 73	
1973-027A	SKYLAB 1	6633	US	14 MAY	17 MAY 73	
1973-027B		6634	US	14 MAY	11 JUL 79	
1973-027C		6635	US	14 MAY	11 JAN 75	
1973-027D		6636	US	14 MAY	10 SEP 73	
1973-027E		6637	US	14 MAY	25 JUN 73	
1973-027F		6638	US	14 MAY	05 AUG 75	
1973-027G		6639	US	14 MAY	03 APR 75	
1973-027H		6641	US	14 MAY	04 OCT 73	
1973-027J		6642	US	14 MAY	01 NOV 76	
1973-027K		6643	US	14 MAY	19 JAN 74	
1973-027L		6644	US	14 MAY	10 FEB 75	
1973-027M		6651	US	14 MAY	01 NOV 73	
1973-027N		6704	US	14 MAY	12 JUN 75	
1973-027P		6705	US	14 MAY	13 APR 74	
					24 SEP 73	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECAVED OBJECTS							
1973-0270			6729	US	14 MAY	16 OCT 73	
1973-027R			6730	US	14 MAY	14 SEP 73	
1973-027S			6733	US	14 MAY	23 OCT 74	
1973-027T			6735	US	14 MAY	20 AUG 75	
1973-027U			6734	US	14 MAY	15 FEB 74	
1973-027V			6774	US	14 MAY	20 SEP 73	
1973-027W			6780	US	14 MAY	12 DEC 74	
1973-027X			6781	US	14 MAY	08 NOV 74	
1973-027Y			6782	US	14 MAY	17 JUL 74	
1973-027Z			6786	US	14 MAY	16 JAN 75	
1973-028A			6640	US	16 MAY	13 JUN 73	
1973-029A	COSMOS 558		6645	USSR	17 MAY	22 DEC 73	
1973-029B			6646	USSR	17 MAY	10 SEP 73	
1973-030A	COSMOS 559		6647	USSR	18 MAY	23 MAY 73	
1973-030B			6648	USSR	18 MAY	28 MAY 73	
1973-030C			6649	USSR	18 MAY	29 MAY 73	
1973-030D			6650	USSR	18 MAY	12 JUN 73	
1973-031A	COSMOS 560		6652	USSR	23 MAY	05 JUN 73	
1973-031B			6653	USSR	23 MAY	01 JUN 73	
1973-031C			6654	USSR	23 MAY	01 JUN 73	
1973-031D			6663	USSR	23 MAY	12 JUN 73	
1973-031E			6664	USSR	23 MAY	06 JUN 73	
1973-032A	SKYLAB 2		6655	US	25 MAY	22 JUN 73	
1973-032B			6656	US	25 MAY	25 MAY 73	
1973-033A	COSMOS 561		6657	USSR	25 MAY	06 JUN 73	
1973-033B			6658	USSR	25 MAY	02 JUN 73	
1973-033C			6661	USSR	25 MAY	07 JUN 73	
1973-033D			6662	USSR	25 MAY	20 JUN 73	
1973-035A	COSMOS 562		6665	USSR	05 JUN	07 JAN 74	
1973-035B			6666	USSR	05 JUN	29 SEP 73	
1973-036A	COSMOS 563		6667	USSR	06 JUN	18 JUN 73	
1973-036B			6668	USSR	06 JUN	13 JUN 73	
1973-036C			6674	USSR	06 JUN	15 JUN 73	
1973-036D			6703	USSR	06 JUN	25 JUN 73	
1973-036E			6706	USSR	06 JUN	23 JUN 73	
1973-038A	COSMOS 572		6684	USSR	10 JUN	23 JUN 73	
1973-038B			6685	USSR	10 JUN	16 JUN 73	
1973-038C			6711	USSR	10 JUN	26 JUN 73	
1973-038D			6712	USSR	10 JUN	23 JUN 73	
1973-039B			6687	US	10 JUN	01 JUL 78	
1973-039C			6688	US	10 JUN	29 JAN 74	
1973-039E			6690	US	10 JUN	19 SEP 73	
1973-039H			6773	US	10 JUN	27 SEP 73	
1973-041A	COSMOS 573		6694	USSR	15 JUN	17 JUN 73	
1973-041B			6695	USSR	15 JUN	21 JUN 73	
1973-041C			6702	USSR	15 JUN	21 JUN 73	
1973-043A	COSMOS 575		6709	USSR	21 JUN	03 JUL 73	
1973-043B			6710	USSR	21 JUN	27 JUN 73	
1973-044A	COSMOS 576		6713	USSR	27 JUN	09 JUL 73	
1973-044B			6714	USSR	27 JUN	07 JUL 73	
1973-044C			6715	USSR	27 JUN	30 JUN 73	
1973-044D			6716	USSR	27 JUN	30 JUN 73	

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DECAVED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-044E	MOLNIYA 2-6	6717	USSR	27 JUN	29 JUN 73	
1973-044F		6719	USSR	27 JUN	11 JUL 73	
1973-044G		6720	USSR	27 JUN	11 JUL 73	
1973-044H		6721	USSR	27 JUN	14 JUL 73	
1973-045A	MOLNIYA 2-6	6722	USSR	11 JUL	05 AUG 78	
1973-045B		6723	USSR	11 JUL	22 AUG 73	
1973-045C		6724	USSR	11 JUL	03 AUG 73	
1973-045D		6741	USSR	11 JUL	19 SEP 78	
1973-046A		6727	US	13 JUL	12 OCT 73	
1973-046B		6728	US	13 JUL	15 JUL 73	
1973-047B		6743	USSR	21 JUL	23 JUL 73	
1973-047C		6744	USSR	21 JUL	26 JUL 73	
1973-048A		6745	USSR	25 JUL	07 AUG 73	
1973-048B		6753	USSR	25 JUL	01 AUG 73	
1973-048C	COSMOS 577	6770	USSR	25 JUL	07 AUG 73	
1973-048D		6772	USSR	25 JUL	12 AUG 73	
1973-048E		6775	USSR	25 JUL	09 AUG 73	
1973-049B		6755	USSR	25 JUL	27 JUL 73	
1973-049C	SKYLAB 3	6756	USSR	25 JUL	27 JUL 73	
1973-050A		6757	US	28 JUL	25 SEP 73	
1973-050B		6758	US	28 JUL	28 JUL 73	F*
1973-051A		6759	USSR	01 AUG	28 JUL 73	
1973-051B	COSMOS 578	6760	USSR	01 AUG	13 AUG 73	
1973-051C		6761	USSR	01 AUG	09 AUG 73	
1973-051D		6762	USSR	01 AUG	05 AUG 73	
1973-051E		6763	USSR	01 AUG	02 AUG 73	
1973-052B	CAPSULE	6769	USSR	05 AUG	02 AUG 73	
1973-052C		6771	USSR	05 AUG	07 AUG 73	
1973-052D		7223	USSR	05 AUG	07 AUG 73	
1973-053B		6777	USSR	09 AUG	12 MAR 74	AR*
1973-053C	COSMOS 579	6778	USSR	09 AUG	11 AUG 73	
1973-055A		6789	USSR	21 AUG	11 AUG 73	
1973-055B		6790	USSR	21 AUG	03 SEP 73	
1973-055C		6795	USSR	21 AUG	28 AUG 73	
1973-055D	COSMOS 580	6813	USSR	21 AUG	25 AUG 73	
1973-055E		6814	USSR	21 AUG	05 SEP 73	
1973-057A		6793	USSR	22 AUG	04 SEP 73	
1973-057B		6794	USSR	22 AUG	01 APR 74	
1973-059A	COSMOS 581	6798	USSR	24 AUG	30 NOV 73	
1973-059B		6799	USSR	24 AUG	06 SEP 73	
1973-059C		6801	USSR	24 AUG	31 AUG 73	
1973-059D		6816	USSR	24 AUG	25 AUG 73	
1973-059E	COSMOS 582	6817	USSR	24 AUG	06 SEP 73	
1973-060A		6802	USSR	28 AUG	09 SEP 73	
1973-060B		6803	USSR	28 AUG	05 SEP 80	
1973-060C		6804	USSR	28 AUG	01 JAN 81	
1973-060D	MOLNIYA 1-24	6998	USSR	28 AUG	20 JUN 82	
1973-060E		6999	USSR	28 AUG	05 MAR 75	
1973-061A		6805	USSR	30 AUG	07 NOV 74	
1973-061B		6806	USSR	30 AUG	05 DEC 79	
1973-061C		6807	USSR	30 AUG	01 OCT 73	
1973-061D		6808	USSR	30 AUG	08 OCT 73	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-061E		6812	USSR	30 AUG	07 SEP 73	
1973-061F		6815	USSR	30 AUG	05 DEC 79	
1973-062A	COSMOS 583	6809	USSR	30 AUG	12 SEP 73	
1973-062B		6810	USSR	30 AUG	06 SEP 73	
1973-062C		6811	USSR	30 AUG	03 SEP 73	
1973-063A	COSMOS 584	6818	USSR	06 SEP	20 SEP 73	
1973-063B		6819	USSR	06 SEP	17 SEP 73	
1973-063C		6820	USSR	06 SEP	09 SEP 73	
1973-063D		6821	USSR	06 SEP	07 SEP 73	
1973-063E		6830	USSR	06 SEP	28 SEP 73	
1973-063F		6831	USSR	06 SEP	25 SEP 73	
1973-063G		6835	USSR	06 SEP	25 SEP 73	
1973-064C		6827	USSR	08 SEP	12 DEC 73	
1973-066A	COSMOS 587	6832	USSR	21 SEP	04 OCT 73	
1973-066B		6833	USSR	21 SEP	28 SEP 73	
1973-066C		6834	USSR	21 SEP	23 SEP 73	
1973-066D		6854	USSR	21 SEP	08 OCT 73	
1973-066E		6855	USSR	21 SEP	04 OCT 73	
1973-067A	SOYUZ 12	6836	USSR	27 SEP	29 SEP 73	E *
1973-067B		6838	USSR	27 SEP	29 SEP 73	
1973-067C		6839	USSR	27 SEP	21 JAN 74	
1973-067D		6840	USSR	27 SEP	03 NOV 73	
1973-068A		6837	US	27 SEP	29 OCT 73	
1973-070A	COSMOS 596	6856	USSR	03 OCT	09 OCT 73	
1973-070B		6857	USSR	03 OCT	09 OCT 73	
1973-070C		6861	USSR	03 OCT	17 OCT 73	
1973-071A	COSMOS 597	6858	USSR	06 OCT	12 OCT 73	
1973-071B		6859	USSR	06 OCT	14 OCT 73	
1973-071C		6860	USSR	06 OCT	08 OCT 73	
1973-071D		6865	USSR	06 OCT	16 OCT 73	
1973-071E		6866	USSR	06 OCT	18 OCT 73	
1973-072A	COSMOS 598	6862	USSR	10 OCT	16 OCT 73	
1973-072B		6863	USSR	10 OCT	11 OCT 73	
1973-072C		6864	USSR	10 OCT	20 OCT 73	
1973-072D		6871	USSR	10 OCT	18 OCT 73	
1973-072E		6872	USSR	10 OCT	21 OCT 73	
1973-073A	COSMOS 599	6867	USSR	15 OCT	28 OCT 73	
1973-073B		6868	USSR	15 OCT	21 OCT 73	
1973-073C		6869	USSR	15 OCT	24 OCT 73	
1973-073D		6870	USSR	15 OCT	24 OCT 73	
1973-074A	COSMOS 600	6873	USSR	16 OCT	23 OCT 73	
1973-074B		6874	USSR	16 OCT	28 OCT 73	
1973-074C		6887	USSR	16 OCT	24 OCT 73	
1973-074D		6888	USSR	16 OCT	28 OCT 73	
1973-074E		6899	USSR	16 OCT	29 OCT 73	
1973-075A	COSMOS 601	6875	USSR	16 OCT	15 AUG 74	
1973-075B		6876	USSR	16 OCT	06 NOV 73	AX *
1973-075C		6880	USSR	16 OCT	28 MAR 74	
1973-075D		6881	USSR	16 OCT	04 DEC 73	
1973-075E		6882	USSR	16 OCT	07 FEB 74	
1973-075F		6883	USSR	16 OCT	04 DEC 73	
1973-075G		6884	USSR	16 OCT	21 FEB 74	

# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-075H		6889	USSR	16 OCT	04 FEB 74	
1973-075J		6890	USSR	16 OCT	04 DEC 73	
1973-075K		6891	USSR	16 OCT	01 MAR 74	
1973-075L		6892	USSR	16 OCT	04 DEC 73	
1973-075M		6897	USSR	16 OCT	18 JAN 74	
1973-075N		6922	USSR	16 OCT	19 NOV 73	
1973-075P		6923	USSR	16 OCT	04 DEC 73	
1973-076A	MOLNIYA 2-7,	6877	USSR	19 OCT	08 JUL 83	
1973-076B		6878	USSR	19 OCT	03 DEC 73	
1973-076C		6879	USSR	19 OCT	18 DEC 73	
1973-076D		6898	USSR	19 OCT	22 JUN 83	
1973-077A		6885	USSR	20 OCT	29 OCT 73	
1973-077B	COSMOS 602	6886	USSR	20 OCT	31 OCT 73	
1973-077C		6905	USSR	20 OCT	31 OCT 73	
1973-077D		6906	USSR	20 OCT	01 NOV 73	
1973-078B		6894	US	26 OCT	29 OCT 73	
1973-078E		6902	US	26 OCT	27 OCT 73	
1973-079A	COSMOS 603	6900	USSR	27 OCT	09 NOV 73	
1973-079B		6901	USSR	27 OCT	09 NOV 73	
1973-079C		6903	USSR	27 OCT	29 OCT 73	
1973-079D		6904	USSR	27 OCT	29 OCT 73	
1973-079E		6924	USSR	27 OCT	10 NOV 73	
1973-079F		6925	USSR	27 OCT	13 NOV 73	
1973-080A	COSMOS 604	6907	USSR	29 OCT	19 JAN 92	
1973-080B		6908	USSR	29 OCT	30 SEP 92	
1973-082A	INTERCOSMOS 10	6911	USSR	30 OCT	01 JUL 77	
1973-082B		6912	USSR	30 OCT	08 OCT 77	
1973-082C		6915	USSR	30 OCT	07 DEC 73	
1973-083A	COSMOS 605	6913	USSR	31 OCT	22 NOV 73	
1973-083B		6914	USSR	31 OCT	28 NOV 73	
1973-083C		6947	USSR	31 OCT	16 JAN 74	
1973-083D		6948	USSR	31 OCT	05 DEC 73	
1973-083E		6949	USSR	31 OCT	09 JAN 74	
1973-083F		6956	USSR	31 OCT	30 DEC 73	
1973-084B		6917	USSR	02 NOV	06 JAN 74	
1973-084C		6918	USSR	02 NOV	29 JAN 74	
1973-086BE		7062	US	06 NOV	10 SEP 82	
1973-086BK		7067	US	06 NOV	26 SEP 82	
1973-086BN		7070	US	06 NOV	04 NOV 81	
1973-086BV		7077	US	06 NOV	02 APR 87	
1973-086CJ		7090	US	06 NOV	27 JAN 82	
1973-086CP		7125	US	06 NOV	26 JAN 91	
1973-086DJ		7144	US	06 NOV	15 FEB 83	
1973-086DX		7159	US	06 NOV	13 MAY 81	
1973-086FF		7197	US	06 NOV	09 JUN 80	
1973-086FH		7199	US	06 NOV	17 JUL 74	
1973-086FK		7201	US	06 NOV	17 NOV 79	
1973-086FN		7204	US	06 NOV	13 DEC 77	
1973-086FP		7205	US	06 NOV	14 DEC 76	
1973-086FQ		7206	US	06 NOV	06 OCT 74	
1973-086FR		7207	US	06 NOV	13 MAY 74	
1973-086FS		7208	US	06 NOV	22 DEC 78	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-086FY		9700	US	06 NOV	25 OCT 79	
1973-087A	COSMOS 607	6926	USSR	10 NOV	22 NOV 73	
1973-087B		6927	USSR	10 NOV	23 NOV 73	
1973-087C		6930	USSR	10 NOV	15 NOV 73	
1973-087D		6945	USSR	10 NOV	28 NOV 73	
1973-087E		6946	USSR	10 NOV	23 NOV 73	
1973-088A		6928	US	10 NOV	13 MAR 74	
1973-088B		6929	US	10 NOV	13 NOV 73	
1973-088C		6931	US	10 NOV	26 DEC 78	
1973-089A	MOLNIYA 1-25	6932	USSR	14 NOV	26 MAY 79	
1973-089B		6933	USSR	14 NOV	02 JAN 74	
1973-089C		6934	USSR	14 NOV	26 NOV 73	
1973-089D		6935	USSR	14 NOV	26 JAN 74	
1973-089E		6940	USSR	14 NOV	20 AUG 79	
1973-090A	SKYLAB 4	6936	US	16 NOV	08 FEB 74	
1973-090B		6937	US	16 NOV	16 NOV 73	
1973-091A	COSMOS 608	6941	USSR	20 NOV	10 JUL 74	
1973-091B		6942	USSR	20 NOV	23 MAR 74	
1973-092A	COSMOS 609	6943	USSR	21 NOV	04 DEC 73	
1973-092B		6944	USSR	21 NOV	04 DEC 73	
1973-092C		6963	USSR	21 NOV	06 DEC 73	
1973-092D		6964	USSR	21 NOV	05 DEC 73	
1973-093A	COSMOS 610	6950	USSR	27 NOV	15 SEP 80	
1973-093B		6951	USSR	27 NOV	06 NOV 80	
1973-093C		6952	USSR	27 NOV	29 JUN 75	
1973-094A	COSMOS 611	6955	USSR	28 NOV	19 JUN 74	
1973-094B		6955	USSR	28 NOV	26 MAR 74	
1973-095A	COSMOS 612	6953	USSR	28 NOV	11 DEC 73	
1973-095B		6954	USSR	28 NOV	12 DEC 73	
1973-095C		6968	USSR	28 NOV	16 DEC 73	
1973-095D		6969	USSR	28 NOV	12 DEC 73	
1973-095E		6970	USSR	28 NOV	11 DEC 73	
1973-096A	COSMOS 613	6957	USSR	30 NOV	29 JAN 74	
1973-096B		6960	USSR	30 NOV	04 DEC 73	
1973-096C		7103	USSR	30 NOV	09 MAR 74	
1973-097A	MOLNIYA 1-26	6958	USSR	30 NOV	09 JUN 85	
1973-097B		6959	USSR	30 NOV	30 DEC 73	
1973-097C		6961	USSR	30 NOV	31 DEC 73	
1973-097D		7178	USSR	30 NOV	17 APR 86	
1973-099A	COSMOS 615	6971	USSR	13 DEC	17 DEC 75	
1973-099B		6972	USSR	13 DEC	24 JAN 75	
1973-100C	EXPLORER 51	6975	US	13 DEC	17 DEC 73	
1973-101A		6977	US	16 DEC	12 DEC 78	
1973-101B		6978	US	16 DEC	14 AUG 74	
1973-102A	COSMOS 616	6979	USSR	17 DEC	28 DEC 73	
1973-102B		6980	USSR	17 DEC	31 DEC 73	
1973-102C		6981	USSR	17 DEC	14 JAN 74	
1973-102D		6994	USSR	17 DEC	02 JAN 74	
1973-102E		7006	USSR	17 DEC	02 JAN 74	
1973-102F		7007	USSR	17 DEC	02 JAN 74	
1973-103A	SOYUZ 13	6982	USSR	18 DEC	26 DEC 73	
1973-103B		6983	USSR	18 DEC	22 DEC 73	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973-103C		6984	USSR	18 DEC	14 JAN 74	
1973-105A	COSMOS 625	6995	USSR	21 DEC	03 JAN 74	
1973-105B		6996	USSR	21 DEC	01 JAN 74	
1973-105C		6997	USSR	21 DEC	22 DEC 73	
1973-105D		7010	USSR	21 DEC	02 JAN 74	
1973-105E		7011	USSR	21 DEC	06 JAN 74	
1973-106A	MOLNIYA 2-8	7000	USSR	25 DEC	24 NOV 84	
1973-106B		7001	USSR	25 DEC	24 JAN 74	
1973-106C		7002	USSR	25 DEC	17 JAN 74	
1973-106D		7372	USSR	25 DEC	24 MAY 85	
1973-108B		7113	USSR	27 DEC	17 FEB 74	
1973-108C		7114	USSR	27 DEC	23 FEB 74	
1973-108D		7115	USSR	27 DEC	22 MAR 74	
1973-108E		7116	USSR	27 DEC	16 FEB 74	
1974 LAUNCHES						
1974-002A	SKYNET 2A	7096	UK	19 JAN	25 JAN 74	
1974-002B		7097	US	19 JAN	20 JAN 74	
1974-002C		7098	US	19 JAN	23 JAN 74	
1974-002D		7099	US	19 JAN	23 JAN 74	
1974-003A	COSMOS 629	7100	USSR	24 JAN	05 FEB 74	
1974-003B		7101	USSR	24 JAN	01 FEB 74	
1974-003C		7102	USSR	24 JAN	26 JAN 74	
1974-003D		7108	USSR	24 JAN	09 FEB 74	
1974-004A	COSMOS 630	7104	USSR	30 JAN	13 FEB 74	
1974-004B		7105	USSR	30 JAN	14 FEB 74	
1974-004C		7106	USSR	30 JAN	06 FEB 74	
1974-004D		7107	USSR	30 JAN	05 FEB 74	
1974-004E		7119	USSR	30 JAN	14 FEB 74	
1974-004F		7120	USSR	30 JAN	16 FEB 74	
1974-005A	COSMOS 631	7109	USSR	06 FEB	03 OCT 80	
1974-005B		7110	USSR	06 FEB	07 DEC 80	
1974-005C		7111	USSR	06 FEB	02 JUL 78	
1974-005D		7112	USSR	06 FEB	11 OCT 75	
1974-005E		7257	USSR	06 FEB	11 JAN 78	
1974-006A	COSMOS 632	7117	USSR	12 FEB	26 FEB 74	
1974-006B		7118	USSR	12 FEB	17 FEB 74	
1974-006C		7171	USSR	12 FEB	27 FEB 74	
1974-006D		7172	USSR	12 FEB	02 MAR 74	
1974-006E		7189	USSR	12 FEB	10 MAR 74	
1974-007A		7121	US	13 FEB	17 MAR 74	
1974-008A	TANSET 2	7122	JAPAN	16 FEB	22 JAN 83	
1974-008B		7123	JAPAN	16 FEB	21 JAN 83	
1974-009A	SAN MARCO 4	7154	ITALY	18 FEB	04 MAY 76	
1974-009B		7157	US	18 FEB	09 JUN 74	
1974-010A	COSMOS 633	7187	USSR	27 FEB	04 OCT 74	
1974-010B		7188	USSR	27 FEB	11 JUN 74	
1974-012A	COSMOS 634	7211	USSR	05 MAR	09 OCT 74	
1974-012B		7212	USSR	05 MAR	17 JUN 74	
1974-012C		7290	USSR	05 MAR	10 SEP 74	
1974-013C		7215	UK	09 MAR	05 APR 84	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974-013D			7214	UK	09 MAR	04 MAY 83	
1974-014A	COSMOS 635		7216	USSR	14 MAR	26 MAR 74	
1974-014B			7217	USSR	14 MAR	25 MAR 74	
1974-014C			7220	USSR	14 MAR	23 MAR 74	
1974-014D			7221	USSR	14 MAR	20 MAR 74	
1974-014E			7222	USSR	14 MAR	07 APR 74	
1974-016A	COSMOS 636		7225	USSR	20 MAR	03 APR 74	
1974-016B			7226	USSR	20 MAR	24 MAR 74	
1974-016C			7227	USSR	20 MAR	25 MAR 74	
1974-016D			7232	USSR	20 MAR	04 APR 74	
1974-016E			7233	USSR	20 MAR	03 APR 74	
1974-016F			7239	USSR	20 MAR	05 APR 74	
1974-017B			7230	USSR	26 MAR	27 MAR 74	
1974-017C			7231	USSR	26 MAR	28 MAR 74	
1974-017D			7248	USSR	26 MAR	16 NOV 76	
1974-017E			7249	USSR	26 MAR	16 NOV 76	
1974-018A	COSMOS 638		7234	USSR	03 APR	13 APR 74	
1974-018B			7235	USSR	03 APR	09 APR 74	
1974-018C			7236	USSR	03 APR	06 APR 74	
1974-018D			7237	USSR	03 APR	05 APR 74	
1974-018E			7238	USSR	03 APR	06 APR 74	
1974-019A	COSMOS 639		7240	USSR	04 APR	15 APR 74	
1974-019B			7241	USSR	04 APR	07 APR 74	
1974-019C			7253	USSR	04 APR	16 APR 74	
1974-019D			7254	USSR	04 APR	17 APR 74	
1974-019E			7255	USSR	04 APR	16 APR 74	
1974-019F			7256	USSR	04 APR	16 APR 74	
1974-020A			7242	US	10 APR	28 JUL 74	
1974-020C			7247	US	10 APR	22 FEB 80	
1974-020D			7243	US	10 APR	12 APR 74	
1974-021A	COSMOS 640		7245	USSR	11 APR	23 APR 74	
1974-021B			7246	USSR	11 APR	14 APR 74	
1974-022B			7251	US	13 APR	25 MAY 74	
1974-022C			7252	US	13 APR	25 MAY 74	
1974-023A	MOLNIYA 1-27		7260	USSR	20 APR	17 NOV 83	
1974-023B			7261	USSR	20 APR	20 JUN 74	
1974-023C			7262	USSR	20 APR	04 JUL 74	
1974-023D			7263	USSR	20 APR	04 MAY 74	
1974-023E			7264	USSR	20 APR	21 DEC 83	
1974-026B			7277	USSR	26 APR	21 MAY 74	
1974-026C			7278	USSR	26 APR	17 MAY 74	
1974-026D			7279	USSR	26 APR	28 APR 74	
1974-027A	COSMOS 649		7280	USSR	29 APR	11 MAY 74	
1974-027B			7282	USSR	29 APR	03 MAY 74	
1974-027C			7283	USSR	29 APR	30 APR 74	
1974-027D			7286	USSR	29 APR	16 MAY 74	
1974-027E			7287	USSR	29 APR	11 MAY 74	
1974-027F			7288	USSR	29 APR	10 MAY 74	
1974-027G			7289	USSR	29 APR	13 MAY 74	
1974-029B			7387	USSR	15 MAY	30 JUL 74	
1974-029C			7388	USSR	15 MAY	05 SEP 74	
1974-030A	COSMOS 652		7292	USSR	15 MAY	23 MAY 74	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974-030B		7294	USSR	15 MAY	19 MAY 74	
1974-030C		7308	USSR	15 MAY	27 MAY 74	
1974-030D		7309	USSR	15 MAY	25 MAY 74	
1974-030E		7311	USSR	15 MAY	05 JUN 74	
1974-030F		7310	USSR	15 MAY	05 JUN 74	
1974-030G		7312	USSR	15 MAY	25 MAY 74	
1974-031A	COSMOS 653	7293	USSR	15 MAY	27 MAY 74	
1974-031B		7295	USSR	15 MAY	20 MAY 74	
1974-031C		7296	USSR	15 MAY	28 MAY 74	
1974-032B		7395	USSR	17 MAY	04 AUG 74	
1974-032C		7396	USSR	17 MAY	30 AUG 74	
1974-032D		7397	USSR	17 MAY	07 SEP 74	
1974-032E		7398	USSR	17 MAY	30 AUG 74	
1974-033B		7300	US	17 MAY	20 MAY 74	
1974-033C		7301	US	17 MAY	21 MAY 74	
1974-033D		7303	US	17 MAY	12 NOV 74	
1974-033E		7304	US	17 MAY	18 MAY 74	
1974-034A	INTERCOSMOS 11	7299	USSR	17 MAY	06 SEP 79	
1974-034B		7302	USSR	17 MAY	07 JAN 80	
1974-034C		7305	USSR	17 MAY	29 DEC 74	
1974-035A	COSMOS 655	7306	USSR	21 MAY	19 NOV 80	
1974-035B		7307	USSR	21 MAY	05 OCT 80	
1974-035D		7515	USSR	21 MAY	10 JUL 81	
1974-035E		7516	USSR	21 MAY	22 APR 81	
1974-035F		7517	USSR	21 MAY	31 OCT 79	
1974-035G		7518	USSR	21 MAY	21 OCT 79	
1974-035H		7519	USSR	21 MAY	08 SEP 79	
1974-035I		8778	USSR	21 MAY	11 JAN 78	
1974-036A	COSMOS 656	7313	USSR	27 MAY	29 MAY 74	
1974-036B		7314	USSR	27 MAY	02 JUN 74	
1974-037B		7316	USSR	29 MAY	02 JUN 74	
1974-037C		7322	USSR	29 MAY	02 JUN 74	
1974-037D		7323	USSR	29 MAY	02 JUN 74	
1974-038A	COSMOS 657	7317	USSR	30 MAY	13 JUN 74	
1974-038B		7320	USSR	30 MAY	02 JUN 74	
1974-038C		7321	USSR	30 MAY	02 JUN 74	
1974-038D		7332	USSR	30 MAY	18 JUN 74	
1974-038E		7333	USSR	30 MAY	14 JUN 74	
1974-039B		7319	US	30 MAY	04 JUN 74	
1974-040A	EXPLORER 52	7325	US	03 JUN	30 APR 78	
1974-040B		7326	US	03 JUN	11 OCT 77	
1974-040C		7327	US	03 JUN	10 NOV 74	
1974-040D		7331	US	03 JUN	21 NOV 74	
1974-041A	COSMOS 658	7328	USSR	06 JUN	18 JUN 74	
1974-041B		7329	USSR	06 JUN	12 JUN 74	
1974-042A		7330	US	06 JUN	23 JUL 74	
1974-043A	COSMOS 659	7334	USSR	13 JUN	26 JUN 74	
1974-043B		7335	USSR	13 JUN	18 JUN 74	
1974-043C		7336	USSR	13 JUN	16 JUN 74	
1974-045A	COSMOS 661	7346	USSR	21 JUN	27 JUN 74	
1974-045B		7339	USSR	21 JUN	27 AUG 80	
		7340	USSR	21 JUN	16 OCT 80	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974-045C			7341	USSR	21 JUN	02 FEB 78	
1974-046A		SALYUT 3	7342	USSR	24 JUN	24 JAN 75	
1974-046B			7343	USSR	24 JUN	03 JUL 74	
1974-046C			7344	USSR	24 JUN	27 JUN 74	
1974-046D			7345	USSR	24 JUN	28 JUN 74	
1974-047A		COSMOS 662	7347	USSR	26 JUN	28 AUG 76	
1974-047B			7348	USSR	26 JUN	26 OCT 75	
1974-049A		COSMOS 664	7351	USSR	29 JUN	11 JUL 74	
1974-049B			7355	USSR	29 JUN	09 JUL 74	
1974-049C			7356	USSR	29 JUN	08 JUL 74	
1974-049D			7357	USSR	29 JUN	01 JUL 74	
1974-049E			7358	USSR	29 JUN	08 JUL 74	
1974-049F			7359	USSR	29 JUN	13 JUL 74	
1974-049G			7366	USSR	29 JUN	13 JUL 74	
1974-049H			7366	USSR	29 JUN	06 JUL 90	
1974-050A		COSMOS 665	7352	USSR	29 JUN	01 SEP 74	
1974-050B			7353	USSR	29 JUN	13 AUG 74	
1974-050D			7360	USSR	29 JUN	19 JUL 74	
1974-051A		SOYUZ 14	7361	USSR	03 JUL	05 JUL 74	
1974-051B			7362	USSR	03 JUL	17 JUL 74	
1974-051C			7374	USSR	12 JUL	25 JUL 74	
1974-053A		COSMOS 666	7367	USSR	12 JUL	18 JUL 74	
1974-053B			7368	USSR	12 JUL	25 JUL 74	
1974-053C			7379	USSR	12 JUL	30 JUL 74	
1974-053D			7381	USSR	12 JUL	26 NOV 80	
1974-054B			7370	US	14 JUL	25 SEP 75	
1974-055A		AEROS 2	7371	FRG	16 JUL	09 OCT 74	
1974-055B			7375	US	16 JUL	15 OCT 74	
1974-055C			7380	FRG	16 JUL	26 AUG 74	
1974-056B			7377	USSR	23 JUL	28 AUG 74	
1974-056C			7378	USSR	23 JUL	07 AUG 74	
1974-057A		COSMOS 667	7383	USSR	25 JUL	30 JUL 74	
1974-057B			7384	USSR	25 JUL	10 AUG 74	
1974-057C			7407	USSR	25 JUL	18 AUG 74	
1974-057D			7408	USSR	25 JUL	21 FEB 75	
1974-058A		COSMOS 668	7385	USSR	25 JUL	15 NOV 74	
1974-058B			7386	USSR	25 JUL	08 AUG 74	
1974-059A		COSMOS 669	7389	USSR	26 JUL	30 JUL 74	
1974-059B			7390	USSR	26 JUL	29 JUL 74	
1974-059C			7391	USSR	26 JUL	07 AUG 74	
1974-059D			7401	USSR	26 JUL	08 AUG 74	
1974-059E			7402	USSR	26 JUL	07 AUG 74	
1974-059F			7403	USSR	26 JUL	11 AUG 74	
1974-059G			7404	USSR	26 JUL	01 AUG 74	
1974-060B			7393	USSR	29 JUL	31 JUL 74	
1974-060C			7394	USSR	29 JUL	26 JAN 79	
1974-060D			7399	USSR	29 JUL	11 DEC 76	
1974-060E			7400	USSR	06 AUG	09 AUG 74	
1974-061A		COSMOS 670	7405	USSR	06 AUG	13 AUG 74	
1974-061B			7406	USSR	07 AUG	20 AUG 74	
1974-062A		COSMOS 671	7409	USSR	07 AUG	14 AUG 74	
1974-062B			7410	USSR	07 AUG		

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974-062C		7419	USSR	07 AUG	09 SEP 74	
1974-062D		7420	USSR	07 AUG	23 AUG 74	
1974-064A	COSMOS 672	7413	USSR	12 AUG	18 AUG 74	
1974-064B		7414	USSR	12 AUG	14 AUG 74	
1974-064C		7415	USSR	12 AUG	16 AUG 74	
1974-065A		7416	US	14 AUG	29 SEP 74	
1974-066A	COSMOS 673	7417	USSR	16 AUG	01 JUN 91	
1974-066D		18913	USSR	16 AUG	27 MAR 89	
1974-067A	SOYUZ 15	7421	USSR	26 AUG	28 AUG 74	
1974-067B		7422	USSR	26 AUG	28 AUG 74	
1974-068A		7423	USSR	29 AUG	07 SEP 74	
1974-068B	COSMOS 674	7425	USSR	29 AUG	04 SEP 74	
1974-068C		7431	USSR	29 AUG	14 SEP 74	
1974-068D		7432	USSR	29 AUG	10 SEP 74	
1974-070A	ANS	7427	NETH	30 AUG	14 JUN 77	
1974-070B		7428	US	30 AUG	19 NOV 75	
1974-070C		7429	NETH	30 AUG	20 JUL 75	
1974-070D		7430	NETH	30 AUG	04 OCT 74	
1974-070E		7694	NETH	30 AUG	10 APR 75	
1974-073A	COSMOS 685	7445	USSR	20 SEP	02 OCT 74	
1974-073B		7444	USSR	20 SEP	26 SEP 74	
1974-073C		7446	USSR	20 SEP	25 SEP 74	
1974-074A	COSMOS 686	7447	USSR	26 SEP	01 MAY 75	
1974-074B		7448	USSR	26 SEP	29 OCT 74	
1974-074C		7449	USSR	26 SEP	19 MAR 75	
1974-074D		7450	USSR	26 SEP	01 JAN 76	
1974-074E		7451	USSR	26 SEP	13 NOV 74	
1974-074F		7452	USSR	26 SEP	18 MAR 75	
1974-074G		7453	USSR	26 SEP	05 JUL 75	
1974-074H		7454	USSR	26 SEP	03 NOV 74	
1974-074J		7455	USSR	26 SEP	03 NOV 74	
1974-074K		7456	USSR	26 SEP	03 NOV 74	
1974-074L		7457	USSR	26 SEP	17 NOV 74	
1974-074M		7458	USSR	26 SEP	26 NOV 74	
1974-074N		7459	USSR	26 SEP	05 MAY 75	
1974-074P		7460	USSR	26 SEP	20 OCT 74	
1974-074Q		7461	USSR	26 SEP	18 OCT 74	
1974-074R		7462	USSR	26 SEP	23 OCT 74	
1974-074S		7463	USSR	26 SEP	10 NOV 74	
1974-074T		7464	USSR	26 SEP	01 NOV 74	
1974-074U		7465	USSR	26 SEP	21 FEB 75	
1974-074V		7526	USSR	26 SEP	27 NOV 74	
1974-075B		7467	US	10 OCT	23 DEC 78	
1974-076A	COSMOS 687	7469	USSR	11 OCT	05 FEB 78	
1974-076B		7470	USSR	11 OCT	04 JAN 77	
1974-077A	ARIEL 5	7471	UK	15 OCT	14 MAR 80	
1974-077B		7472	US	15 OCT	13 MAY 79	
1974-078A	COSMOS 688	7473	USSR	18 OCT	30 OCT 74	
1974-078B		7474	USSR	18 OCT	24 OCT 74	
1974-078C		7475	USSR	18 OCT	23 OCT 74	
1974-078D		7496	USSR	18 OCT	31 OCT 74	
1974-080A	COSMOS 690	7478	USSR	22 OCT	12 NOV 74	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974-080B			7479	USSR	22 OCT	10 NOV 74	
1974-080C			7521	USSR	22 OCT	21 NOV 74	
1974-080D			7522	USSR	22 OCT	03 DEC 74	
1974-080E			7523	USSR	22 OCT	14 DEC 74	
1974-080F			7524	USSR	22 OCT	16 NOV 74	
1974-080G			7527	USSR	22 OCT	23 NOV 74	
1974-080H			7528	USSR	22 OCT	24 NOV 74	
1974-081A		MOLNIYA 1-28	7480	USSR	24 OCT	29 DEC 85	
1974-081B			7481	USSR	24 OCT	31 DEC 74	
1974-081C			7482	USSR	24 OCT	03 JAN 75	
1974-081D			7485	USSR	24 OCT	27 OCT 86	
1974-081E			7486	USSR	24 OCT	04 NOV 74	
1974-082A		COSMOS 691	7483	USSR	25 OCT	06 NOV 74	
1974-082B			7484	USSR	25 OCT	29 OCT 74	
1974-082C			7511	USSR	25 OCT	10 NOV 74	
1974-082D			7512	USSR	25 OCT	06 NOV 74	
1974-084A		LUNA 23	7491	USSR	28 OCT	06 NOV 74	
1974-084B			7492	USSR	28 OCT	01 NOV 74	
1974-084C			7494	USSR	28 OCT	01 NOV 74	
1974-085A			7495	US	29 OCT	01 NOV 74	
1974-085B			7498	US	29 OCT	19 MAR 75	
1974-085C			7499	US	29 OCT	23 JAN 80	
1974-085D		INTERCOSMOS 12	7497	US	29 OCT	26 MAY 75	
1974-086A			7500	USSR	31 OCT	31 OCT 74	
1974-086B			7501	USSR	31 OCT	11 JUL 75	
1974-086C			7507	USSR	31 OCT	23 JUL 75	
1974-086D			7508	USSR	31 OCT	11 NOV 74	
1974-087A		COSMOS 692	7502	USSR	01 NOV	13 NOV 74	
1974-087B			7503	USSR	01 NOV	06 NOV 74	
1974-087C			7504	USSR	01 NOV	05 NOV 74	
1974-087D			7505	USSR	01 NOV	05 NOV 74	
1974-087E			7506	USSR	01 NOV	05 NOV 74	
1974-087F			7520	USSR	01 NOV	23 NOV 74	
1974-087G			7525	USSR	01 NOV	18 NOV 74	
1974-088A		COSMOS 693	7509	USSR	04 NOV	16 NOV 74	
1974-088B			7510	USSR	04 NOV	09 NOV 74	
1974-088C			7513	USSR	04 NOV	06 NOV 74	
1974-088D			7514	USSR	04 NOV	16 NOV 74	
1974-088E			7534	USSR	04 NOV	17 NOV 74	
1974-089G			8138	US	15 NOV	14 NOV 92	
1974-089AM			8171	US	15 NOV	08 MAY 82	
1974-089AS			8176	US	15 NOV	17 OCT 89	
1974-089BC			8186	US	15 NOV	27 DEC 78	
1974-089BE			8297	US	15 NOV	10 JAN 91	
1974-089BM			8304	US	15 NOV	10 NOV 89	
1974-089BV			8312	US	15 NOV	03 JUN 82	
1974-089CU			8557	US	15 NOV	10 JUN 82	
1974-089CV			8558	US	15 NOV	28 JAN 78	
1974-089CW			8559	US	15 NOV	10 JUN 82	
1974-089DC			8565	US	15 NOV	16 MAY 88	
1974-089DP			8787	US	15 NOV	24 AUG 77	
1974-089DT			8909	US	15 NOV	15 NOV 81	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974-089EL		13130	US	15 NOV	14 SEP 90	
1974-089EV		15522	US	15 NOV	04 SEP 88	
1974-089EV		18508	US	15 NOV	15 MAR 89	
1974-089FB		18901	US	15 NOV	11 JUL 89	
1974-089FF		20681	US	15 NOV	02 AUG 90	
1974-090A	COSMOS 694	7533	USSR	16 NOV	29 NOV 74	
1974-090B		7535	USSR	16 NOV	25 NOV 74	
1974-090C		7536	USSR	16 NOV	17 NOV 74	
1974-090D		7537	USSR	16 NOV	18 NOV 74	
1974-090E		7555	USSR	16 NOV	03 DEC 74	
1974-090F		7556	USSR	16 NOV	30 NOV 74	
1974-090G		7557	USSR	16 NOV	03 DEC 74	
1974-091A	COSMOS 695	7538	USSR	20 NOV	15 JUL 75	
1974-091B		7539	USSR	20 NOV	15 MAR 75	
1974-092A	MOLNIYA 3-1	7540	USSR	21 NOV	15 MAY 86	
1974-092B		7541	USSR	21 NOV	27 JAN 75	
1974-092C		7542	USSR	21 NOV	11 JAN 75	
1974-092D		7543	USSR	21 NOV	10 JAN 75	
1974-092E		7546	USSR	21 NOV	09 MAR 86	
1974-094B		7548	US	23 NOV	07 JAN 75	
1974-094C		7549	US	23 NOV	26 DEC 74	
1974-094D		7550	US	23 NOV	08 DEC 89	
1974-094E		9530	US	23 NOV	04 NOV 76	
1974-095A	COSMOS 696	7551	USSR	27 NOV	09 DEC 74	
1974-095B		7552	USSR	27 NOV	05 DEC 74	
1974-095C		7553	USSR	27 NOV	29 NOV 74	
1974-095D		7554	USSR	27 NOV	03 DEC 74	
1974-096A	SOYUZ 16	7561	USSR	02 DEC	08 DEC 74	
1974-096B		7562	USSR	02 DEC	07 DEC 74	
1974-096C		7563	USSR	02 DEC	08 DEC 74	
1974-096D		7564	USSR	02 DEC	03 DEC 74	
1974-096E		7565	USSR	02 DEC	08 DEC 74	
1974-096F		7566	USSR	02 DEC	08 DEC 74	
1974-098A	COSMOS 697	7571	USSR	13 DEC	25 DEC 74	
1974-098B		7572	USSR	13 DEC	21 DEC 74	
1974-098C		7573	USSR	13 DEC	16 DEC 74	
1974-098D		7589	USSR	13 DEC	26 DEC 74	
1974-098E		7590	USSR	13 DEC	26 DEC 74	
1974-100A	COSMOS 698	7576	USSR	18 DEC	09 DEC 80	
1974-100B		7577	USSR	18 DEC	08 NOV 80	
1974-100C		7582	USSR	18 DEC	06 MAR 77	
1974-100D		7636	USSR	18 DEC	23 SEP 81	
1974-100E		7695	USSR	18 DEC	29 SEP 77	
1974-100F		7722	USSR	18 DEC	20 OCT 79	
1974-100G		7723	USSR	18 DEC	14 APR 80	
1974-100H		7724	USSR	18 DEC	02 MAR 78	
1974-100J		9793	USSR	18 DEC	01 AUG 77	
1974-101B		7579	US	19 DEC	19 APR 78	
1974-101C		7580	US	19 DEC	24 APR 77	
1974-101D		7581	US	19 DEC	02 JAN 77	
1974-101E		8739	US	19 DEC	08 SEP 77	
1974-101F		8740	US	19 DEC	25 DEC 77	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974-102A	MOLNIYA 2-11	7583	USSR	21 DEC	07 JUL 88	
1974-102B		7584	USSR	21 DEC	12 MAR 75	
1974-102C		7585	USSR	21 DEC	08 MAR 75	
1974-102D		7586	USSR	21 DEC	05 JAN 89	
1974-103A	COSMOS 699	7587	USSR	24 DEC	16 OCT 77	
1974-103B		7588	USSR	24 DEC	25 DEC 74	
1974-103C		7748	USSR	24 DEC	08 JAN 77	AZ*
1974-103D		7749	USSR	24 DEC	12 APR 76	
1974-103E		7750	USSR	24 DEC	27 FEB 77	
1974-103F		7754	USSR	24 DEC	01 JUN 75	
1974-103G		7755	USSR	24 DEC	20 JAN 76	
1974-103H		7756	USSR	24 DEC	23 DEC 76	
1974-103J		7757	USSR	24 DEC	18 OCT 78	
1974-103K		7758	USSR	24 DEC	16 AUG 75	
1974-103L		7759	USSR	24 DEC	06 JUN 76	
1974-103M		7760	USSR	24 DEC	30 OCT 75	
1974-103N		7762	USSR	24 DEC	29 JUL 75	
1974-103P		7763	USSR	24 DEC	12 APR 76	
1974-103Q		7764	USSR	24 DEC	26 AUG 75	
1974-103R		7765	USSR	24 DEC	23 SEP 77	
1974-103S		7766	USSR	24 DEC	25 JUL 75	
1974-103T		7767	USSR	24 DEC	09 JUL 75	
1974-103U		7783	USSR	24 DEC	06 JUL 75	
1974-103V		7784	USSR	24 DEC	10 OCT 75	
1974-103W		7793	USSR	24 DEC	09 JUL 75	
1974-103X		7814	USSR	24 DEC	09 SEP 75	
1974-103Y		7999	USSR	24 DEC	06 DEC 78	
1974-103Z		8046	USSR	24 DEC	01 NOV 75	
1974-103AA		8047	USSR	24 DEC	26 FEB 78	
1974-103AB		8048	USSR	24 DEC	22 MAR 76	
1974-103AC		8049	USSR	24 DEC	10 JUN 78	
1974-103AD		8050	USSR	24 DEC	12 NOV 75	
1974-103AE		8051	USSR	24 DEC	06 NOV 76	
1974-103AF		8052	USSR	24 DEC	04 AUG 75	
1974-103AG		8056	USSR	24 DEC	10 MAR 76	
1974-103AH		8057	USSR	24 DEC	21 NOV 78	
1974-103AJ		8100	USSR	24 DEC	20 SEP 75	
1974-103AK		8101	USSR	24 DEC	13 MAR 76	
1974-103AL		8102	USSR	24 DEC	12 MAR 78	
1974-103AM		8103	USSR	24 DEC	30 SEP 75	
1974-103AN		8104	USSR	24 DEC	29 JAN 76	
1974-103AP		8105	USSR	24 DEC	03 MAY 79	
1974-103AQ		8106	USSR	24 DEC	12 APR 76	
1974-103AR		8109	USSR	24 DEC	24 SEP 75	
1974-103AS		8112	USSR	24 DEC	04 MAR 78	
1974-103AT		8113	USSR	24 DEC	15 JUL 78	
1974-103AU		8114	USSR	24 DEC	09 MAY 76	
1974-103AV		8115	USSR	24 DEC	28 JAN 76	
1974-103AW		8116	USSR	24 DEC	23 SEP 77	
1974-103AX		8117	USSR	24 DEC	14 APR 76	
1974-103AY		8118	USSR	24 DEC	19 JUN 78	
1974-103AZ		8119	USSR	24 DEC	01 NOV 75	



DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DEATH	NOTES	
1974-103BA	SALYUT 4	8120	USSR	24 DEC	10 APR 78	BA *	
1974-103BB		8121	USSR	24 DEC	28 DEC 77		
1974-103BC		8122	USSR	24 DEC	28 JUN 78		
1974-104A		7591	USSR	26 DEC	02 FEB 77		
1974-104B		7592	USSR	26 DEC	01 JAN 75		
1974-104C		7595	USSR	26 DEC	28 DEC 74		
1974-104D		7598	USSR	26 DEC	22 JAN 75		
1974-104E		7608	USSR	26 DEC	29 APR 75		
1974-104F		7628	USSR	26 DEC	08 APR 75		
1974-104G		7630	USSR	26 DEC	15 APR 75		
1974-104H		7634	USSR	26 DEC	15 APR 75		
1974-104J		7656	USSR	26 DEC	18 APR 75		
1974-104K		7657	USSR	26 DEC	26 APR 75		
1974-104L		7658	USSR	26 DEC	07 MAY 75		
1974-104M		7661	USSR	26 DEC	13 APR 75		
1974-104N	7662	USSR	26 DEC	10 SEP 75			
1974-104P	7704	USSR	26 DEC	16 JUN 75			
1974-104Q	7995	USSR	26 DEC	16 SEP 75			
1974-104R	7996	USSR	26 DEC	18 SEP 75			
1974-104S	7997	USSR	26 DEC	25 MAR 76			
1974-104T	7998	USSR	26 DEC	15 SEP 75			
1974-104U	8055	USSR	26 DEC	27 OCT 75			
1974-106A	COSMOS 701	7596	USSR	27 DEC	09 JAN 75		
1974-106B		7597	USSR	27 DEC	07 JAN 75		
1974-106C		7599	USSR	27 DEC	02 JAN 75		
1974-106D		7600	USSR	27 DEC	07 JAN 75		
1974-106E		7601	USSR	27 DEC	11 JAN 75		
1974-106F		7602	USSR	27 DEC	15 JAN 75		
1974-106G		7603	USSR	27 DEC	15 JAN 75		
1975 LAUNCHES							
1975-001A		SOYUZ 17	7604	USSR	10 JAN	09 FEB 75	E *
1975-001B	7605		USSR	10 JAN	14 JAN 75		
1975-001C	7610		USSR	10 JAN	25 MAR 75		
1975-001D	7613		USSR	10 JAN	12 APR 75		
1975-001E	7614		USSR	10 JAN	08 MAY 75		
1975-001F	COSMOS 702	7622	USSR	10 JAN	24 OCT 75		
1975-001G		7633	USSR	10 JAN	15 APR 75		
1975-001H		7635	USSR	10 JAN	23 MAR 75		
1975-001J		7640	USSR	10 JAN	27 OCT 75		
1975-002A		7606	USSR	17 JAN	29 JAN 75		
1975-002B	COSMOS 703	7607	USSR	17 JAN	29 JAN 75		
1975-002C		7609	USSR	17 JAN	21 JAN 75		
1975-003A		7611	USSR	21 JAN	20 NOV 75		
1975-003B		7612	USSR	21 JAN	22 AUG 75		
1975-004C		8675	US	22 JAN	18 SEP 90		
1975-004D		8676	US	22 JAN	05 NOV 79		
1975-004E		8677	US	22 JAN	14 SEP 79		
1975-004H		8680	US	22 JAN	10 FEB 79		
1975-004K		8683	US	22 JAN	05 APR 77		
1975-004L		8684	US	22 JAN	28 DEC 79		

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975-004N		8687	US	22 JAN	18 FEB 77	
1975-004P		8691	US	22 JAN	22 MAY 82	
1975-004Q		8692	US	22 JAN	28 AUG 89	
1975-004R		8693	US	22 JAN	29 AUG 81	
1975-004S		8936	US	22 JAN	20 NOV 78	
1975-004T		8937	US	22 JAN	09 DEC 79	
1975-004U		8938	US	22 JAN	18 APR 78	
1975-004V		8939	US	22 JAN	05 MAY 81	
1975-004X		8941	US	22 JAN	18 APR 78	
1975-004Y		8942	US	22 JAN	26 SEP 81	
1975-004Z		8943	US	22 JAN	17 JUL 82	
1975-004AA		8944	US	22 JAN	18 FEB 80	
1975-004AB		8945	US	22 JAN	25 APR 80	
1975-004AC		8946	US	22 JAN	15 JUL 78	
1975-004AD		8947	US	22 JAN	08 APR 81	
1975-004AE		8948	US	22 JAN	10 AUG 81	
1975-004AF		8949	US	22 JAN	06 APR 79	
1975-004AG		8950	US	22 JAN	19 DEC 81	
1975-004AJ		8952	US	22 JAN	29 MAR 79	
1975-004AK		8953	US	22 JAN	07 JUN 89	
1975-004AM		8955	US	22 JAN	23 JUN 77	
1975-004AP		8957	US	22 JAN	04 NOV 79	
1975-004AS		8960	US	22 JAN	08 MAR 92	
1975-004AT		8961	US	22 JAN	24 APR 79	
1975-004AU		8962	US	22 JAN	29 DEC 79	
1975-004AX		8965	US	22 JAN	03 NOV 78	
1975-004AY		8966	US	22 JAN	09 NOV 78	
1975-004AZ		8967	US	22 JAN	16 OCT 89	
1975-004BD		8971	US	22 JAN	23 OCT 79	
1975-004BE		8972	US	22 JAN	05 NOV 79	
1975-004BF		8973	US	22 JAN	13 JAN 80	
1975-004BG		8974	US	22 JAN	31 JAN 77	
1975-004BH		8975	US	22 JAN	06 SEP 79	
1975-004BJ		8976	US	22 JAN	21 NOV 79	
1975-004BK		8977	US	22 JAN	28 JUL 81	
1975-004BQ		8982	US	22 JAN	23 JUN 80	
1975-004BR		8983	US	22 JAN	11 SEP 79	
1975-004BS		8984	US	22 JAN	23 NOV 79	
1975-004BT		8985	US	22 JAN	30 MAY 79	
1975-004BU		8986	US	22 JAN	17 OCT 79	
1975-004BV		8987	US	22 JAN	16 DEC 79	
1975-004BW		8988	US	22 JAN	25 APR 79	
1975-004BX		8989	US	22 JAN	16 AUG 78	
1975-004BY		8990	US	22 JAN	27 FEB 82	
1975-004BZ		8991	US	22 JAN	09 DEC 83	
1975-004CA		8992	US	22 JAN	23 APR 81	
1975-004CB		8993	US	22 JAN	01 DEC 86	
1975-004CC		8994	US	22 JAN	16 JUN 79	
1975-004CD		8995	US	22 JAN	11 OCT 86	
1975-004CE		8996	US	22 JAN	10 DEC 83	
1975-004CG		8998	US	22 JAN	24 MAR 79	
1975-004CH		8999	US	22 JAN	08 MAY 82	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975--004CU		9000	US	22 JAN	13 DEC 91	
1975--004CK		9001	US	22 JAN	20 FEB 80	
1975--004CL		9002	US	22 JAN	26 DEC 80	
1975--004CN		9004	US	22 JAN	03 JUL 77	
1975--004CP		9005	US	22 JAN	26 DEC 80	
1975--004CQ		9026	US	22 JAN	09 NOV 78	
1975--004CR		9027	US	22 JAN	04 FEB 78	
1975--004CS		9028	US	22 JAN	01 MAY 78	
1975--004CT		9029	US	22 JAN	22 OCT 80	
1975--004CU		9030	US	22 JAN	11 JAN 80	
1975--004CV		9031	US	22 JAN	14 DEC 79	
1975--004CW		9032	US	22 JAN	04 FEB 77	
1975--004CX		9033	US	22 JAN	21 SEP 79	
1975--004CY		9034	US	22 JAN	09 APR 81	
1975--004CZ		9035	US	22 JAN	12 OCT 78	
1975--004DA		9036	US	22 JAN	03 FEB 80	
1975--004DB		9037	US	22 JAN	03 OCT 79	
1975--004DC		9038	US	22 JAN	31 JAN 77	
1975--004DD		9039	US	22 JAN	06 OCT 78	
1975--004DF		9041	US	22 JAN	13 SEP 80	
1975--004DH		9282	US	22 JAN	10 DEC 79	
1975--004DJ		9283	US	22 JAN	02 DEC 79	
1975--004DK		9284	US	22 JAN	04 OCT 79	
1975--004DL		9285	US	22 JAN	31 JAN 77	
1975--004DM		9286	US	22 JAN	25 APR 77	
1975--004DN		9287	US	22 JAN	20 APR 79	
1975--004DP		9288	US	22 JAN	01 OCT 77	
1975--004DQ		9289	US	22 JAN	22 JAN 78	
1975--004DR		9290	US	22 JAN	27 MAY 77	
1975--004DS		9291	US	22 JAN	30 JUN 80	
1975--004DV		9292	US	22 JAN	24 MAY 84	
1975--004DW		9294	US	22 JAN	26 FEB 79	
1975--004DX		9295	US	22 JAN	27 JAN 79	
1975--004DY		9296	US	22 JAN	18 MAY 81	
1975--004DZ		9297	US	22 JAN	31 JAN 77	
1975--004EA		9298	US	22 JAN	09 FEB 77	
1975--004EB		9299	US	22 JAN	30 JUN 78	
1975--004EC		9300	US	22 JAN	19 NOV 82	
1975--004ED		9301	US	22 JAN	04 JAN 79	
1975--004EE		9302	US	22 JAN	15 APR 79	
1975--004EF		9303	US	22 JAN	06 APR 80	
1975--004EG		9304	US	22 JAN	05 SEP 80	
1975--004EH		9305	US	22 JAN	24 JAN 89	
1975--004EJ		9306	US	22 JAN	21 DEC 80	
1975--004EK		9307	US	22 JAN	21 OCT 79	
1975--004EL		9308	US	22 JAN	09 MAY 81	
1975--004EM		9309	US	22 JAN	11 AUG 81	
1975--004EN		9310	US	22 JAN	07 JUL 77	
1975--004EP		9311	US	22 JAN	16 JUN 79	
1975--004ER		9312	US	22 JAN	08 MAY 78	
1975--004ES		9314	US	22 JAN	01 DEC 82	
		9315	US	22 JAN	13 FEB 79	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975-004ET		9316	US	22 JAN	28 DEC 77	
1975-004EU		9317	US	22 JAN	21 APR 81	
1975-004EV		9318	US	22 JAN	04 JUN 79	
1975-004EW		9319	US	22 JAN	04 MAY 80	
1975-004EY		9321	US	22 JAN	05 FEB 80	
1975-004EZ		9322	US	22 JAN	12 APR 77	
1975-004FB		9324	US	22 JAN	08 SEP 79	
1975-004FC		9325	US	22 JAN	11 OCT 80	
1975-004FD		9326	US	22 JAN	17 APR 78	
1975-004FE		9327	US	22 JAN	23 MAR 80	
1975-004FF		9543	US	22 JAN	28 NOV 77	
1975-004FG		9544	US	22 JAN	12 MAY 79	
1975-004FH		9545	US	22 JAN	21 SEP 89	
1975-004FI		9546	US	22 JAN	07 OCT 77	
1975-004FK		9547	US	22 JAN	19 JAN 80	
1975-004FL		9548	US	22 JAN	01 FEB 79	
1975-004FM		9549	US	22 JAN	08 JUL 78	
1975-004FN		9550	US	22 JAN	14 APR 79	
1975-004FQ		9571	US	22 JAN	31 DEC 78	
1975-004FR		9616	US	22 JAN	02 NOV 81	
1975-004FT		9618	US	22 JAN	31 OCT 80	
1975-004FW		9621	US	22 JAN	31 MAY 88	
1975-004FX		9622	US	22 JAN	18 JAN 79	
1975-004FY		9677	US	22 JAN	11 JUN 81	
1975-004FZ		9678	US	22 JAN	14 JUN 79	
1975-004GA		9679	US	22 JAN	20 SEP 90	
1975-004GB		9680	US	22 JAN	17 JUL 79	
1975-004GD		9682	US	22 JAN	16 JAN 92	
1975-004GE		9683	US	22 JAN	19 JUN 81	
1975-004GF		9684	US	22 JAN	20 FEB 79	
1975-004GG		9685	US	22 JAN	17 JUL 86	
1975-004GH		9686	US	22 JAN	16 JUN 79	
1975-004GJ		9687	US	22 JAN	30 NOV 79	
1975-004GK		9688	US	22 JAN	11 SEP 80	
1975-004GL		9689	US	22 JAN	12 SEP 90	
1975-004GM		9690	US	22 JAN	06 JUN 80	
1975-004GN		9691	US	22 JAN	21 JUN 78	
1975-004GP		9705	US	22 JAN	28 APR 78	
1975-004GQ		9706	US	22 JAN	04 DEC 78	
1975-004GR		9707	US	22 JAN	16 NOV 79	
1975-004GS		9708	US	22 JAN	02 MAY 79	
1975-004GT		9709	US	22 JAN	12 MAR 78	
1975-004GW		9712	US	22 JAN	03 JAN 79	
1975-004GX		9713	US	22 JAN	18 JUL 78	
1975-004GY		9714	US	22 JAN	07 JAN 79	
1975-004GZ		9715	US	22 JAN	09 MAY 79	
1975-004HA		9716	US	22 JAN	25 NOV 77	
1975-004HB		9717	US	22 JAN	11 APR 79	
1975-004HC		9948	US	22 JAN	02 MAR 85	
1975-004HD		9949	US	22 JAN	26 OCT 81	
1975-004HE		9950	US	22 JAN	14 JUL 79	
1975-004HF		10397	US	22 JAN	06 JAN 81	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975--004HG		14882	US	22 JAN	02 JUL 89	
1975--004HH		17729	US	22 JAN	04 MAY 92	
1975--004HU		17730	US	22 JAN	09 MAY 89	
1975--004HM		19053	US	22 JAN	13 DEC 91	
1975--004HR		19431	US	22 JAN	14 DEC 90	
1975--005A	COSMOS 704	7617	USSR	23 JAN	06 FEB 75	
1975--005B		7618	USSR	23 JAN	03 FEB 75	
1975--005C		7619	USSR	23 JAN	26 JAN 75	
1975--005D		7620	USSR	23 JAN	26 JAN 75	
1975--005E		7621	USSR	23 JAN	26 JAN 75	
1975--005F		7631	USSR	23 JAN	07 FEB 75	
1975--005G		7632	USSR	23 JAN	06 FEB 75	
1975--005H		7644	USSR	23 JAN	08 FEB 75	
1975--005J		7649	USSR	23 JAN	09 FEB 75	
1975--006A	COSMOS 705	7623	USSR	28 JAN	18 NOV 75	
1975--006B		7624	USSR	28 JAN	25 JUN 75	
1975--007B		7626	USSR	30 JAN	04 APR 75	
1975--007C		7627	USSR	30 JAN	01 MAR 75	
1975--008A	COSMOS 707	7637	USSR	05 FEB	07 SEP 80	
1975--008B		7638	USSR	05 FEB	27 AUG 80	
1975--008C		7639	USSR	05 FEB	14 DEC 76	
1975--008D		7645	USSR	05 FEB	17 APR 77	
1975--008E		7777	USSR	05 FEB	29 APR 77	
1975--009A	MOLNIYA 2-12	7641	USSR	06 FEB	04 JUL 85	
1975--009B		7642	USSR	06 FEB	25 APR 75	
1975--009C		7643	USSR	06 FEB	23 APR 75	
1975--009D		7653	USSR	06 FEB	30 SEP 85	
1975--011B		7650	US	06 FEB	06 APR 82	
1975--011C		7651	US	06 FEB	16 FEB 75	
1975--011D		7652	US	06 FEB	16 FEB 75	
1975--011E		7660	US	06 FEB	21 FEB 75	
1975--013A	COSMOS 709	7664	USSR	12 FEB	25 FEB 75	
1975--013B		7666	USSR	12 FEB	17 FEB 75	
1975--013C		7667	USSR	12 FEB	15 FEB 75	
1975--013D		7668	USSR	12 FEB	15 FEB 75	
1975--013E		7669	USSR	12 FEB	15 FEB 75	
1975--013F		7672	USSR	12 FEB	01 MAR 75	
1975--013G		7673	USSR	12 FEB	26 FEB 75	
1975--014A	SRATS (TAIYO)	7671	JAPAN	24 FEB	29 JUN 80	
1975--014B		7674	JAPAN	24 FEB	17 MAY 80	
1975--015A	COSMOS 710	7675	USSR	26 FEB	12 MAR 75	
1975--015B		7676	USSR	26 FEB	03 MAR 75	
1975--015C		7677	USSR	26 FEB	03 MAR 75	
1975--015D		7689	USSR	26 FEB	12 MAR 75	
1975--015E		7690	USSR	26 FEB	16 MAR 75	
1975--018A	COSMOS 719	7691	USSR	12 MAR	25 MAR 75	
1975--018B		7692	USSR	12 MAR	16 MAR 75	
1975--018C		7693	USSR	12 MAR	15 MAR 75	
1975--018D		7701	USSR	12 MAR	26 MAR 75	
1975--018E		7702	USSR	12 MAR	30 MAR 75	
1975--018F		7703	USSR	12 MAR	28 MAR 75	
1975--019A	COSMOS 720	7696	USSR	21 MAR	01 APR 75	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975-019B			7697	USSR	21 MAR	30 MAR 75	
1975-019C			7698	USSR	21 MAR	22 MAR 75	
1975-019D			7699	USSR	21 MAR	25 MAR 75	
1975-019E			7700	USSR	21 MAR	22 MAR 75	
1975-019F			7717	USSR	21 MAR	05 APR 75	
1975-019G			7719	USSR	21 MAR	04 APR 75	
1975-019H			7725	USSR	21 MAR	10 APR 75	
1975-019J			7726	USSR	21 MAR	09 APR 75	
1975-020A	COSMOS 721		7705	USSR	26 MAR	07 APR 75	
1975-020B			7706	USSR	26 MAR	29 MAR 75	
1975-020C			7707	USSR	26 MAR	31 MAR 75	
1975-020D			7708	USSR	26 MAR	07 APR 75	
1975-020E			7720	USSR	26 MAR	10 APR 75	
1975-020F			7721	USSR	26 MAR	09 APR 75	
1975-021A	COSMOS 722		7709	USSR	27 MAR	09 APR 75	
1975-021B			7711	USSR	27 MAR	29 MAR 75	
1975-021C			7712	USSR	27 MAR	02 APR 75	
1975-021D			7716	USSR	27 MAR	10 APR 75	
1975-021E			7728	USSR	27 MAR	12 APR 75	
1975-021F			7729	USSR	27 MAR	14 APR 75	
1975-021G			7732	USSR	27 MAR	10 APR 75	
1975-021H			7733	USSR	27 MAR	02 SEP 80	
1975-022A	INTERCOSMOS 13		7710	USSR	27 MAR	21 APR 80	
1975-022B			7713	USSR	27 MAR	21 MAY 75	
1975-024B			7795	USSR	02 APR	19 MAY 75	
1975-024C			7796	USSR	02 APR	15 JUL 75	
1975-024D			7797	USSR	02 APR	24 MAY 75	
1975-024E			7798	USSR	02 APR	25 MAY 75	
1975-024F			7799	USSR	02 APR	07 AUG 75	
1975-025B			7922	USSR	07 APR	17 JUN 75	
1975-025C			7923	USSR	07 APR	05 OCT 88	
1975-025D			18281	USSR	07 APR	06 JAN 76	
1975-026A	COSMOS 725		7730	USSR	08 APR	09 SEP 75	
1975-026B			7731	USSR	08 APR	07 DEC 83	
1975-027D			10729	US	09 APR	29 NOV 88	
1975-029A	MOLNIYA 3-2		7738	USSR	14 APR	20 JUN 75	
1975-029B			7739	USSR	14 APR	04 JUN 75	
1975-029C			7740	USSR	14 APR	28 APR 75	
1975-030A	COSMOS 727		7742	USSR	16 APR	21 APR 75	
1975-030B			7743	USSR	16 APR	19 APR 75	
1975-030C			7744	USSR	16 APR	05 MAY 75	
1975-030D			7774	USSR	16 APR	01 MAY 75	
1975-030E			7775	USSR	16 APR	29 APR 75	
1975-031A	COSMOS 728		7745	USSR	18 APR	30 APR 75	
1975-031B			7746	USSR	18 APR	20 APR 75	
1975-031C			7751	USSR	18 APR	22 APR 75	
1975-031D			7761	USSR	18 APR	03 MAY 75	
1975-031E			7776	USSR	18 APR	28 APR 75	
1975-031F			7778	USSR	18 APR	16 MAY 75	
1975-032A			7779	USSR	18 APR	05 JUN 75	
1975-033A	ARIABAT		7752	INDIA	19 APR	11 FEB 92	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975-033B		7753	USSR	19 APR	06 NOV 88	
1975-033C		8058	USSR	19 APR	12 MAR 78	
1975-033D		9839	USSR	19 APR	21 JUN 77	
1975-035A	COSMOS 730	7770	USSR	24 APR	06 MAY 75	
1975-035B		7771	USSR	24 APR	29 APR 75	
1975-035C		7772	USSR	24 APR	01 MAY 75	
1975-035D		7773	USSR	24 APR	28 APR 75	
1975-035E		7775	USSR	24 APR	07 MAY 75	
1975-035F		7785	USSR	24 APR	06 MAY 75	
1975-035G		7786	USSR	24 APR	24 MAY 75	
1975-036B		7787	USSR	29 APR	29 MAY 75	
1975-036C		7781	USSR	29 APR	03 JUN 75	
1975-037A	EXPLORER 53	7782	USSR	29 APR	09 APR 79	
1975-037B		7788	US	07 MAY	09 SEP 79	
1975-038B		7789	US	07 MAY	03 NOV 76	
1975-038C		7791	US	07 MAY	08 MAY 75	
1975-039A	POLLUX	7792	FRANCE	17 MAY	05 AUG 75	
1975-039B	CASTOR	7801	FRANCE	17 MAY	18 FEB 79	
1975-039C		7802	FRANCE	17 MAY	07 AUG 76	
1975-039D		7803	FRANCE	17 MAY	26 SEP 76	
1975-039E		7804	FRANCE	17 MAY	18 JUN 76	
1975-039F		7805	FRANCE	17 MAY	30 SEP 76	
1975-039G		7806	FRANCE	17 MAY	29 JAN 78	
1975-040A		8035	US	20 MAY	26 MAY 75	
1975-040B		7807	US	20 MAY	26 MAY 75	
1975-040C		7808	US	20 MAY	21 MAY 75	
1975-041A	COSMOS 731	7809	USSR	21 MAY	02 JUN 75	
1975-041B		7810	USSR	21 MAY	30 MAY 75	
1975-041C		7811	USSR	21 MAY	24 MAY 75	
1975-041D		7812	USSR	21 MAY	26 MAY 75	
1975-041E		7813	USSR	21 MAY	06 JUN 75	
1975-041F		7879	USSR	21 MAY	11 JUN 75	
1975-041G		7880	USSR	21 MAY	19 JUN 75	
1975-041H		7881	USSR	21 MAY	26 JUL 75	
1975-044A	SOYUZ 18	7885	USSR	24 MAY	15 MAY 76	
1975-044B		7818	USSR	24 MAY	20 SEP 75	
1975-044C		7819	USSR	24 MAY	28 MAR 76	
1975-044D		7911	USSR	24 MAY	04 OCT 75	
1975-044E		7912	USSR	24 MAY	01 OCT 75	
1975-044F		7948	USSR	24 MAY	15 SEP 75	
1975-044G		7949	USSR	24 MAY	12 OCT 75	
1975-044H		7953	USSR	24 MAY	06 MAR 76	
1975-044J		7955	USSR	24 MAY	09 OCT 75	
1975-044K		7956	USSR	24 MAY	29 MAR 76	
1975-044L		7962	USSR	24 MAY	12 OCT 75	
1975-044M		7984	USSR	24 MAY	05 OCT 75	
1975-044N		8019	USSR	24 MAY		
1975-044P		8020	USSR	24 MAY		
1975-044Q		8021	USSR	24 MAY		
1975-044R		8022	USSR	24 MAY		
1975-044S		8023	USSR	24 MAY		
1975-044T		8024	USSR	24 MAY		
		8025	USSR	24 MAY		

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INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975-044U			8038	USSR	24 MAY	20 OCT 75	
1975-046A	COSMOS 740		7821	USSR	28 MAY	10 JUN 75	
1975-046B			7829	USSR	28 MAY	03 JUN 75	
1975-046C			7830	USSR	28 MAY	04 JUN 75	
1975-046D			7920	USSR	28 MAY	18 JUN 75	
1975-046E			7921	USSR	28 MAY	18 JUN 75	
1975-047A	COSMOS 741		7877	USSR	30 MAY	11 JUN 75	
1975-047B			7878	USSR	30 MAY	04 JUN 75	
1975-048A	COSMOS 742		7900	USSR	03 JUN	15 JUN 75	
1975-048B			7901	USSR	03 JUN	11 JUN 75	
1975-048C			7913	USSR	03 JUN	12 JUN 75	
1975-048D			7951	USSR	03 JUN	16 JUN 75	
1975-048E			7952	USSR	03 JUN	15 JUN 75	
1975-049A	MOLNIYA 1-30		7903	USSR	05 JUN	12 AUG 87	
1975-049C			7904	USSR	05 JUN	16 JUL 75	
1975-049D			7905	USSR	05 JUN	09 JUL 75	
1975-049E			7906	USSR	05 JUN	16 AUG 75	
1975-049F			8548	USSR	05 JUN	13 OCT 90	
1975-050B			7916	USSR	08 JUN	09 JUN 75	
1975-050C			7917	USSR	08 JUN	09 JUN 75	
1975-050D			8411	USSR	08 JUN	22 OCT 75	
1975-051A	DESCENT CRAFT		7918	US	08 JUN	05 NOV 75	
1975-051B			7919	US	08 JUN	11 JUN 75	
1975-052C			7965	US	12 JUN	01 JUL 81	
1975-052CB			21357	US	12 JUN	18 AUG 92	
1975-052DM			21391	US	12 JUN	05 JUN 91	
1975-052DP			21431	US	12 JUN	11 DEC 91	
1975-052DQ			21432	US	12 JUN	03 MAR 92	
1975-052DU			21436	US	12 JUN	19 DEC 91	
1975-052EH			21449	US	12 JUN	28 AUG 91	
1975-052EK			21451	US	12 JUN	29 OCT 91	
1975-052EP			21455	US	12 JUN	20 AUG 91	
1975-052EQ			21456	US	12 JUN	30 SEP 91	
1975-052FC			21468	US	12 JUN	12 NOV 91	
1975-052FU			21474	US	12 JUN	05 JUL 91	
1975-052FP			21494	US	12 JUN	05 AUG 91	
1975-052FQ			21495	US	12 JUN	17 AUG 91	
1975-052FY			21502	US	12 JUN	12 NOV 91	
1975-052FY			21503	US	12 JUN	04 AUG 92	
1975-052GA			21505	US	12 JUN	24 OCT 91	
1975-052GC			21507	US	12 JUN	10 AUG 91	
1975-052GD			21508	US	12 JUN	03 SEP 91	
1975-052GE			21509	US	12 JUN	29 AUG 91	
1975-052GF			21510	US	12 JUN	31 OCT 91	
1975-052GG			21511	US	12 JUN	10 JUL 91	
1975-052GJ			21513	US	12 JUN	04 JAN 92	
1975-052GN			21517	US	12 JUN	29 SEP 91	
1975-052GP			21518	US	12 JUN	29 OCT 91	
1975-052GQ			21519	US	12 JUN	13 NOV 91	
1975-052GR			21520	US	12 JUN	21 NOV 91	
1975-052GT			21522	US	12 JUN	10 NOV 91	
1975-052GV			21539	US	12 JUN	31 AUG 91	

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DECAYED OBJECTS		INTER-NATIONAL DESIGNATION		NAME		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
1975-052HG		21562	US	12 JUN	07 AUG 91										
1975-052HH		21563	US	12 JUN	09 OCT 91										
1975-052HJ		21564	US	12 JUN	03 OCT 91										
1975-052HP		21569	US	12 JUN	16 NOV 91										
1975-052HR		21597	US	12 JUN	16 MAR 93										
1975-052HU		21600	US	12 JUN	10 NOV 91										
1975-052HX		21671	US	12 JUN	27 OCT 91										
1975-052HY		21672	US	12 JUN	24 DEC 91										
1975-052HZ		21673	US	12 JUN	11 NOV 91										
1975-052JB		21675	US	12 JUN	01 DEC 91										
1975-052JF		21679	US	12 JUN	19 OCT 91										
1975-052JH		21681	US	12 JUN	06 SEP 91										
1975-052JK		21683	US	12 JUN	17 OCT 92										
1975-052JM		21684	US	12 JUN	28 AUG 91										
1975-052JP		21685	US	12 JUN	01 NOV 91										
1975-053A	COSMOS 743	21687	US	12 JUN	08 NOV 91										
1975-053B		7925	USSR	12 JUN	25 JUN 75										
1975-053C		7926	USSR	12 JUN	20 JUN 75										
1975-053D		7927	USSR	12 JUN	18 JUN 75										
1975-053E		7972	USSR	12 JUN	29 JUN 75										
1975-053F		7981	USSR	12 JUN	26 JUN 75										
1975-054B		7987	USSR	12 JUN	26 JUN 75										
1975-054C		7950	USSR	14 JUN	15 JUN 75										
1975-054D	DESCENT CRAFT	7954	USSR	14 JUN	15 JUN 75										
1975-056A	COSMOS 744	8423	USSR	14 JUN	25 OCT 75										
1975-057A	OSO 8	7968	USSR	20 JUN	12 OCT 91										N*
1975-057B		7970	US	21 JUN	09 JUL 86										
1975-058A	COSMOS 745	7971	US	21 JUN	09 APR 81										
1975-058B		7982	USSR	24 JUN	12 MAR 76										
1975-059A	COSMOS 746	7983	USSR	24 JUN	14 NOV 75										
1975-059B		7985	USSR	25 JUN	08 JUL 75										
1975-059C		7986	USSR	25 JUN	01 JUL 75										
1975-059D		7988	USSR	25 JUN	26 JUN 75										
1975-059E		7989	USSR	25 JUN	26 JUN 75										
1975-059F		8011	USSR	25 JUN	12 JUL 75										
1975-060A	COSMOS 747	8012	USSR	25 JUN	09 JUL 75										
1975-060B		7990	USSR	27 JUN	09 JUL 75										
1975-060C		7991	USSR	27 JUN	08 JUL 75										
1975-060D		7992	USSR	27 JUN	28 JUN 75										
1975-060E		7993	USSR	27 JUN	02 JUL 75										
1975-060F		7994	USSR	27 JUN	29 JUN 75										
1975-060G		8013	USSR	27 JUN	17 JUL 75										
1975-061A	COSMOS 748	8014	USSR	27 JUN	09 JUL 75										
1975-061B		8006	USSR	03 JUL	16 JUL 75										
1975-061C		8007	USSR	03 JUL	09 JUL 75										
1975-061D		8008	USSR	03 JUL	15 JUL 75										
1975-061E		8028	USSR	03 JUL	15 JUL 75										
1975-061F		8029	USSR	03 JUL	16 JUL 75										
1975-062A	COSMOS 749	8034	USSR	03 JUL	17 JUL 75										
1975-062B		8009	USSR	04 JUL	26 SEP 80										
1975-062C		8010	USSR	04 JUL	26 DEC 80										
		8107	USSR	04 JUL	27 AUG 81										

INTER- NATIONAL DESIGNATION			DECAYED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
			NAME											
1975-063B					8016		USSR		08 JUL		09 AUG 75			
1975-063C					8017		USSR		08 JUL		09 AUG 75			
1975-065A			SOYUZ 19		8030		USSR		15 JUL		21 JUL 75		BC*	
1975-065B					8031		USSR		15 JUL		17 JUL 75			
1975-066A			APOLLO 18		8032		US		15 JUL		24 JUL 75		BC*	
1975-066B					8033		US		15 JUL		16 JUL 75			
1975-066C					8042		US		15 JUL		02 AUG 75			
1975-067A			COSMOS 750		8036		USSR		17 JUL		29 SEP 77			
1975-067B					8037		USSR		17 JUL		17 NOV 76			
1975-067C					8045		USSR		17 JUL		28 JUL 76			
1975-068A			COSMOS 751		8040		USSR		23 JUL		04 AUG 75			
1975-068B					8041		USSR		23 JUL		30 JUL 75			
1975-069A			COSMOS 752		8043		USSR		24 JUL		28 FEB 81			
1975-069B					8044		USSR		24 JUL		05 NOV 79			
1975-070A			MAO 3		8053		PRC		26 JUL		14 SEP 75			
1975-070B					8054		PRC		26 JUL		25 AUG 75			
1975-071A			COSMOS 753		8059		USSR		31 JUL		13 AUG 75			
1975-071B					8060		USSR		31 JUL		07 AUG 75			
1975-071C					8061		USSR		31 JUL		01 AUG 75			
1975-071D					8067		USSR		31 JUL		16 AUG 75			
1975-071E					8068		USSR		31 JUL		13 AUG 75			
1975-073A			COSMOS 754		8069		USSR		13 AUG		26 AUG 75			
1975-073B					8070		USSR		13 AUG		25 AUG 75			
1975-073C					8071		USSR		13 AUG		15 AUG 75			
1975-073D					8129		USSR		13 AUG		31 AUG 75			
1975-073E					8130		USSR		13 AUG		27 AUG 75			
1975-073F					8131		USSR		13 AUG		27 AUG 75			
1975-075C			VIKING LANDER 1		9024		US		20 AUG		20 JUL 76		BD*	
1975-076A			COSMOS 756		8127		USSR		22 AUG		05 NOV 92			
1975-077D					8135		US		27 AUG		23 SEP 76			
1975-078A			COSMOS 757		8147		USSR		27 AUG		09 SEP 75			
1975-078B					8148		USSR		27 AUG		03 SEP 75			
1975-078C					8149		USSR		27 AUG		02 SEP 75			
1975-078D					8150		USSR		27 AUG		08 SEP 75			
1975-078E					8193		USSR		27 AUG		02 SEP 75			
1975-078F					8194		USSR		27 AUG		11 SEP 75			
1975-079A			MOLNIYA 1-31		8187		USSR		02 SEP		19 NOV 85			
1975-079B					8188		USSR		02 SEP		10 NOV 75			
1975-079C					8189		USSR		02 SEP		01 NOV 75			
1975-079D					8190		USSR		02 SEP		12 OCT 75			
1975-079E					8274		USSR		02 SEP		08 JUL 86			
1975-080A			COSMOS 758		8191		USSR		05 SEP		25 SEP 75			
1975-080B					8192		USSR		05 SEP		10 SEP 75		BE*	
1975-080C					8200		USSR		05 SEP		09 SEP 75			
1975-080D					8201		USSR		05 SEP		09 SEP 75			
1975-080E					8202		USSR		05 SEP		09 SEP 75			
1975-080F					8203		USSR		05 SEP		09 SEP 75			
1975-080G					8204		USSR		05 SEP		09 SEP 75			
1975-080H					8205		USSR		05 SEP		09 SEP 75			
1975-080J					8206		USSR		05 SEP		09 SEP 75			
1975-080K					8207		USSR		05 SEP		09 SEP 75			
1975-080L					8208		USSR		05 SEP		09 SEP 75			

# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975-080M		8209	USSR	05 SEP	09 SEP 75	
1975-080M		8210	USSR	05 SEP	09 SEP 75	
1975-080P		8211	USSR	05 SEP	09 SEP 75	
1975-080Q		8212	USSR	05 SEP	09 SEP 75	
1975-080R		8213	USSR	05 SEP	09 SEP 75	
1975-080S		8214	USSR	05 SEP	09 SEP 75	
1975-080T		8215	USSR	05 SEP	09 SEP 75	
1975-080U		8216	USSR	05 SEP	09 SEP 75	
1975-080V		8217	USSR	05 SEP	09 SEP 75	
1975-080W		8218	USSR	05 SEP	09 SEP 75	
1975-080X		8219	USSR	05 SEP	09 SEP 75	
1975-080Y		8220	USSR	05 SEP	09 SEP 75	
1975-080Z		8221	USSR	05 SEP	09 SEP 75	
1975-080AA		8222	USSR	05 SEP	09 SEP 75	
1975-080AB		8223	USSR	05 SEP	09 SEP 75	
1975-080AC		8224	USSR	05 SEP	09 SEP 75	
1975-080AD		8225	USSR	05 SEP	09 SEP 75	
1975-080AE		8226	USSR	05 SEP	09 SEP 75	
1975-080AF		8227	USSR	05 SEP	09 SEP 75	
1975-080AG		8228	USSR	05 SEP	09 SEP 75	
1975-080AH		8229	USSR	05 SEP	09 SEP 75	
1975-080AJ		8230	USSR	05 SEP	09 SEP 75	
1975-080AK		8231	USSR	05 SEP	09 SEP 75	
1975-080AL		8232	USSR	05 SEP	09 SEP 75	
1975-080AM		8233	USSR	05 SEP	09 SEP 75	
1975-080AN		8234	USSR	05 SEP	09 SEP 75	
1975-080AP		8235	USSR	05 SEP	09 SEP 75	
1975-080AQ		8236	USSR	05 SEP	09 SEP 75	
1975-080AR		8237	USSR	05 SEP	09 SEP 75	
1975-080AS		8238	USSR	05 SEP	09 SEP 75	
1975-080AT		8239	USSR	05 SEP	09 SEP 75	
1975-080AU		8240	USSR	05 SEP	09 SEP 75	
1975-080AV		8241	USSR	05 SEP	09 SEP 75	
1975-080AW		8242	USSR	05 SEP	09 SEP 75	
1975-080AX		8243	USSR	05 SEP	09 SEP 75	
1975-080AY		8244	USSR	05 SEP	09 SEP 75	
1975-080AZ		8245	USSR	05 SEP	09 SEP 75	
1975-080BA		8246	USSR	05 SEP	09 SEP 75	
1975-080BB		8247	USSR	05 SEP	09 SEP 75	
1975-080BC		8248	USSR	05 SEP	09 SEP 75	
1975-080BD		8249	USSR	05 SEP	09 SEP 75	
1975-080BE		8250	USSR	05 SEP	09 SEP 75	
1975-080BF		8251	USSR	05 SEP	09 SEP 75	
1975-080BG		8252	USSR	05 SEP	09 SEP 75	
1975-080BH		8253	USSR	05 SEP	09 SEP 75	
1975-080BJ		8254	USSR	05 SEP	09 SEP 75	
1975-080BK		8255	USSR	05 SEP	09 SEP 75	
1975-080BL		8256	USSR	05 SEP	09 SEP 75	
1975-080BM		8257	USSR	05 SEP	09 SEP 75	
1975-080BN		8258	USSR	05 SEP	09 SEP 75	
1975-080BP		8259	USSR	05 SEP	09 SEP 75	
1975-080BQ		8260	USSR	05 SEP	09 SEP 75	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975-080BR			8261	USSR	05 SEP	09 SEP 75	
1975-080BS			8262	USSR	05 SEP	09 SEP 75	
1975-080BT			8263	USSR	05 SEP	09 SEP 75	
1975-080BU			8264	USSR	05 SEP	09 SEP 75	
1975-080BV			8265	USSR	05 SEP	09 SEP 75	
1975-080BW			8266	USSR	05 SEP	09 SEP 75	
1975-080BX			8267	USSR	05 SEP	09 SEP 75	
1975-080BY			8268	USSR	05 SEP	09 SEP 75	
1975-080BZ			8269	USSR	05 SEP	09 SEP 75	
1975-080CA			8270	USSR	05 SEP	09 SEP 75	
1975-080CB			8271	USSR	05 SEP	17 SEP 75	
1975-080CC			8273	USSR	05 SEP	03 OCT 75	
1975-080CD			8280	USSR	05 SEP	26 SEP 75	
1975-080CE			8283	USSR	05 SEP	09 OCT 75	
1975-081B			8196	USSR	09 SEP	18 OCT 75	
1975-081C			8198	USSR	09 SEP	03 SEP 76	
1975-083C	VIKING LANDER 2		9408	US	12 SEP	23 SEP 75	BD*
1975-084A			8275	USSR	12 SEP	25 SEP 75	
1975-084B			8276	USSR	12 SEP	14 SEP 75	
1975-084C			8277	USSR	12 SEP	17 SEP 75	
1975-084D			8278	USSR	12 SEP	16 SEP 75	
1975-084E			8279	USSR	12 SEP	26 SEP 75	
1975-084F			8324	USSR	12 SEP	26 SEP 75	
1975-084G			8329	USSR	16 SEP	30 SEP 75	
1975-085A	COSMOS 760		8281	USSR	16 SEP	21 SEP 75	
1975-085B			8282	USSR	16 SEP	18 SEP 75	
1975-085C			8284	USSR	16 SEP	05 OCT 75	
1975-085D			8334	USSR	16 SEP	30 SEP 75	
1975-085E			8335	USSR	16 SEP	01 OCT 75	
1975-085F			8347	USSR	23 SEP	05 OCT 75	
1975-088A	COSMOS 769		8322	USSR	23 SEP	02 OCT 75	
1975-088B			8323	USSR	23 SEP	13 OCT 75	
1975-088C			8349	USSR	25 SEP	08 OCT 75	
1975-090A	COSMOS 771		8327	USSR	25 SEP	29 SEP 75	
1975-090B			8355	USSR	25 SEP	12 OCT 75	
1975-090C			8356	USSR	25 SEP	08 OCT 75	
1975-090D			8332	FRANCE	27 SEP	30 SEP 82	
1975-092A	D2-B		8333	FRANCE	27 SEP	17 OCT 78	
1975-092B			8336	FRANCE	27 SEP	16 MAY 78	
1975-092C			8337	FRANCE	27 SEP	27 OCT 78	
1975-092D			8340	FRANCE	27 SEP	01 JAN 80	
1975-092E			8341	FRANCE	27 SEP	20 NOV 79	
1975-092F			8342	FRANCE	27 SEP	02 OCT 75	
1975-092G			8338	USSR	29 SEP	06 OCT 75	
1975-093A	COSMOS 772		8339	USSR	01 OCT	15 OCT 75	
1975-093B			8345	USSR	01 OCT	10 OCT 75	
1975-095A	COSMOS 774		8348	USSR	01 OCT	08 OCT 75	
1975-095B			8350	USSR	01 OCT	08 OCT 75	
1975-095D			8351	USSR	01 OCT	14 OCT 75	
1975-095E			8362	USSR	01 OCT	14 OCT 75	
1975-095F			8363	USSR	01 OCT	16 OCT 75	

# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DEATH	NOTES
1975-095G	EXPLORER 54	8365	USSR	01 OCT	14 OCT 75	
1975-096A		8353	US	06 OCT	12 MAR 76	
1975-096B		8354	US	06 OCT	01 APR 76	
1975-097B		8358	USSR	08 OCT	10 OCT 75	
1975-097C	TIP 2	8359	USSR	08 OCT	09 OCT 75	
1975-097D		8414	USSR	08 OCT	01 MAR 78	
1975-097E		8415	USSR	08 OCT	17 OCT 78	
1975-098A		8360	US	09 OCT	30 NOV 75	
1975-099A	COSMOS 776	8361	US	12 OCT	26 MAY 91	
1975-099B		8364	US	12 OCT	28 MAR 78	
1975-099C		8409	US	12 OCT	12 NOV 78	
1975-099D		8410	US	12 OCT	31 MAY 76	
1975-100B	COSMOS 777	8367	US	16 OCT	05 JAN 76	
1975-100D		8371	US	16 OCT	11 NOV 75	
1975-100E		8372	US	16 OCT	01 NOV 75	
1975-101A		8369	USSR	17 OCT	29 OCT 75	
1975-101B		8370	USSR	17 OCT	23 OCT 75	
1975-101C		8373	USSR	17 OCT	08 NOV 75	
1975-101D		8412	USSR	17 OCT	01 NOV 75	
1975-101E		8413	USSR	17 OCT	31 OCT 75	
1975-102A		8416	USSR	29 OCT	03 JUN 76	
1975-102B		8417	USSR	29 OCT	30 OCT 75	
1975-102C		8622	USSR	29 OCT	04 DEC 76	
1975-102D		8623	USSR	29 OCT	13 DEC 76	
1975-102E		8624	USSR	29 OCT	15 NOV 76	
1975-102F		8625	USSR	29 OCT	15 MAR 76	
1975-102G		8626	USSR	29 OCT	08 JAN 77	
1975-102H		8627	USSR	29 OCT	23 FEB 77	
1975-102J		8628	USSR	29 OCT	15 NOV 76	
1975-102K		8629	USSR	29 OCT	15 NOV 76	
1975-102L		8630	USSR	29 OCT	19 AUG 76	
1975-102M		8631	USSR	29 OCT	21 AUG 77	
1975-102N		8632	USSR	29 OCT	20 JUL 77	
1975-102P		8633	USSR	29 OCT	09 DEC 76	
1975-102Q		8634	USSR	29 OCT	04 DEC 76	
1975-102R		8635	USSR	29 OCT	15 NOV 76	
1975-102S		8636	USSR	29 OCT	20 JAN 77	
1975-102T		8637	USSR	29 OCT	04 APR 77	
1975-102U		8638	USSR	29 OCT	14 MAR 76	
1975-102V		8639	USSR	29 OCT	04 DEC 76	
1975-102W		8640	USSR	29 OCT	15 NOV 76	
1975-102X		8641	USSR	29 OCT	30 JUN 77	
1975-102Y		8642	USSR	29 OCT	15 NOV 76	
1975-102Z		8643	USSR	29 OCT	04 DEC 76	
1975-102AA		8644	USSR	29 OCT	08 JAN 77	
1975-102AB		8647	USSR	29 OCT	05 JUN 78	
1975-102AC		8648	USSR	29 OCT	18 JUN 79	
1975-102AD		8649	USSR	29 OCT	18 JUN 79	
1975-102AE		8650	USSR	29 OCT	27 MAR 76	
1975-102AF		8651	USSR	29 OCT	16 MAR 77	
1975-102AG		8652	USSR	29 OCT	20 NOV 76	
1975-102AH		8653	USSR	29 OCT	13 DEC 76	

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INTER- NATIONAL DESIGNATION	DECAYED OBJECTS	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975-102AU			8654	USSR	29 OCT	15 NOV 76	
1975-102AK			8655	USSR	29 OCT	26 JAN 77	
1975-102AL			8656	USSR	29 OCT	30 OCT 77	
1975-102AM			8657	USSR	29 OCT	13 DEC 76	
1975-102AN			8711	USSR	29 OCT	14 DEC 76	
1975-102AP			8712	USSR	29 OCT	01 MAY 77	
1975-102AQ			8713	USSR	29 OCT	01 APR 76	
1975-102AR			8714	USSR	29 OCT	20 NOV 76	
1975-102AS			8715	USSR	29 OCT	09 FEB 77	
1975-102AT			8716	USSR	29 OCT	04 DEC 76	
1975-102AV			8717	USSR	29 OCT	23 FEB 77	
1975-102AW			8718	USSR	29 OCT	13 DEC 76	
1975-102AX			8719	USSR	29 OCT	13 DEC 76	
1975-102AY			8720	USSR	29 OCT	25 FEB 77	
1975-102AZ			8721	USSR	29 OCT	03 MAR 76	
1975-102BA			8722	USSR	29 OCT	07 DEC 76	
1975-102BB			8723	USSR	29 OCT	14 APR 77	
1975-102BB			8724	USSR	29 OCT	15 NOV 76	
1975-102BC			8725	USSR	29 OCT	02 APR 76	
1975-102BD			8726	USSR	29 OCT	20 APR 76	
1975-102BE			8727	USSR	29 OCT	15 NOV 76	
1975-102BF			8728	USSR	29 OCT	29 MAR 76	
1975-102BG			8729	USSR	29 OCT	08 JAN 77	
1975-102BH			8730	USSR	29 OCT	29 MAR 76	
1975-102BJ			8731	USSR	29 OCT	13 DEC 76	
1975-102BK			8732	USSR	29 OCT	05 NOV 77	
1975-102BL			8733	USSR	29 OCT	08 SEP 76	
1975-102BM			8734	USSR	29 OCT	08 JAN 77	
1975-102BN			8735	USSR	29 OCT	27 JAN 77	
1975-102BP			8736	USSR	29 OCT	25 APR 76	
1975-102BQ			9563	USSR	29 OCT	09 JUN 77	
1975-104A	COSMOS 779		8420	USSR	04 NOV	27 NOV 76	
1975-104B			8422	USSR	04 NOV	18 NOV 75	
1975-104C			8428	USSR	04 NOV	10 NOV 75	
1975-104D			8429	USSR	04 NOV	19 NOV 75	
1975-105B			8426	USSR	14 NOV	17 NOV 75	
1975-105C			8427	USSR	14 NOV	15 DEC 75	
1975-106A	SOYUZ 20		8430	USSR	17 NOV	05 DEC 75	
1975-106B			8431	USSR	17 NOV	16 FEB 76	
1975-107A			8440	US	20 NOV	20 NOV 75	
1975-107B	EXPLORER 55		8441	US	20 NOV	10 JUN 81	
1975-108A			8442	USSR	21 NOV	19 MAR 76	
1975-108B	COSMOS 780		8443	USSR	21 NOV	03 DEC 75	
1975-108C			8446	USSR	21 NOV	27 NOV 75	
1975-108D			8460	USSR	21 NOV	22 NOV 75	
1975-108E			8461	USSR	21 NOV	11 DEC 75	
1975-109A	COSMOS 781		8444	USSR	21 NOV	02 DEC 75	
1975-109B			8445	USSR	21 NOV	26 NOV 80	
1975-109C			8447	USSR	21 NOV	20 DEC 80	
1975-109D			8448	USSR	21 NOV	28 JUN 78	
1975-109E			8449	USSR	21 NOV	25 NOV 77	
1975-109F			8776	USSR	21 NOV	09 OCT 77	

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# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DEATH	NOTES
1975-109G		8777	USSR	21 NOV	18 JUL 78	
1975-109H		9693	USSR	21 NOV	11 SEP 77	
1975-109J		9994	USSR	21 NOV	11 FEB 78	
1975-109K		9995	USSR	21 NOV	12 JAN 78	
1975-109L		10433	USSR	21 NOV	19 MAY 78	
1975-110A	COSMOS 782	8450	USSR	25 NOV	15 DEC 75	
1975-110B		8451	USSR	25 NOV	23 DEC 75	
1975-110C		8486	USSR	25 NOV	31 DEC 75	
1975-110D		8487	USSR	25 NOV	10 FEB 76	
1975-110E		8518	USSR	25 NOV	26 JAN 76	
1975-111A	MAO 4	8452	PRC	26 NOV	29 DEC 75	
1975-111B		8453	PRC	26 NOV	22 DEC 75	
1975-111C		8454	PRC	26 NOV	29 NOV 75	
1975-111D		8455	PRC	26 NOV	28 NOV 75	
1975-111E		8456	PRC	26 NOV	28 NOV 75	
1975-111F		8457	PRC	26 NOV	28 NOV 75	
1975-113A	COSMOS 784	8463	USSR	03 DEC	15 DEC 75	
1975-113B		8464	USSR	03 DEC	07 DEC 75	
1975-113C		8465	USSR	03 DEC	04 DEC 75	
1975-113D		8466	USSR	03 DEC	08 DEC 75	
1975-113E		8481	USSR	03 DEC	15 DEC 75	
1975-113F		8484	USSR	03 DEC	20 DEC 75	
1975-113G		8485	USSR	03 DEC	21 DEC 75	
1975-114A		8468	US	04 DEC	01 APR 76	
1975-114B		8469	US	04 DEC	01 MAY 78	
1975-114C		8470	US	04 DEC	06 DEC 75	
1975-114D		8471	US	04 DEC	03 JUN 76	
1975-115A	INTERCOSMOS 14	8472	USSR	11 DEC	27 FEB 83	
1975-115B		8474	USSR	11 DEC	28 NOV 82	
1975-115C		8475	USSR	11 DEC	11 NOV 78	
1975-115E		8765	USSR	11 DEC	30 MAY 82	
1975-115F		8766	USSR	11 DEC	13 APR 81	
1975-116B		8477	USSR	11 DEC	29 MAY 78	
1975-116C		8480	USSR	12 DEC	14 DEC 75	
1975-117B		8478	USSR	12 DEC	05 FEB 76	
1975-117C		8479	US	13 DEC	07 AUG 76	
1975-118B		8483	US	13 DEC	10 NOV 82	
1975-119A	MAO 5	8488	US	14 DEC	19 DEC 75	
1975-119B		8491	PRC	16 DEC	27 JAN 76	
1975-120A	COSMOS 786	8489	PRC	16 DEC	10 JAN 76	
1975-120B		8490	USSR	16 DEC	29 DEC 75	
1975-120C		8523	USSR	16 DEC	03 JAN 76	
1975-120D		8524	USSR	16 DEC	29 DEC 75	
1975-120E		8528	USSR	16 DEC	30 DEC 75	
1975-121B		8493	USSR	17 DEC	14 JAN 76	
1975-121C		8494	USSR	17 DEC	11 JAN 76	
1975-121D		8529	USSR	17 DEC	13 OCT 86	
1975-122B		8511	USSR	22 DEC	22 FEB 76	
1975-122C		8512	USSR	22 DEC	09 FEB 76	
1975-123B		8514	USSR	22 DEC	22 DEC 75	
1975-123C		8515	USSR	22 DEC	25 DEC 75	

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LAUNCH

## DECAY

NOTES

8521  
8522  
8525  
8526  
8527  
8600

USSR	27 DEC
USSR	27 DEC
USSR	27 DEC
USSR	27 DEC
USSR	27 DEC
USSR	27 DEC

12	AUG	86
23	JAN	76
19	JAN	76
28	DEC	75
08	JAN	76
30	JUL	86

## COSMOS 787

COSMOS 787

1976-001A  
1976-001B  
1976-001C  
1976-001D  
1976-001E  
1976-001F  
1976-001G  
1976-001H  
1976-001J  
1976-001K  
1976-002A

COSMOS 788

8530  
8531  
8549  
8550  
9731  
9790  
9791  
9792  
9837  
9838  
8551

USSR	06	JAN
USSR	06	JAN
USSR	06	JAN
USSR	06	JAN
USSR	06	JAN
USSR	06	JAN
USSR	06	JAN
USSR	06	JAN
USSR	06	JAN
USSR	07	JAN
USSR	07	JAN

## COSMOS 801

8530	8531	8549	8550	9731	9790	9791	9792	9837	9838	8551	8552	8553	8558	8589	8590	8586	8587	8598	8602	8603	8604	8605	8616	8617	8618	8619	8658	8659
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USSR	06 JAN
USSR	06 JAN
USSR	06 JAN
USSR	06 JAN
USSR	06 JAN
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USSR	06 JAN
USSR	06 JAN
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USSR	07 JAN
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USSR	07 JAN
USSR	07 JAN
US	17 JAN
US	17 JAN
US	17 JAN
USSR	22 JAN
USSR	22 JAN
USSR	22 JAN
USSR	22 JAN
USSR	29 JAN
USSR	29 JAN
USSR	29 JAN
USSR	29 JAN
USSR	05 FEB

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1976-012C  
1976-012D  
1976-012E  
1976-012F  
1976-012G  
1976-012H  
1976-012J  
1976-012K  
1976-012L  
1976-012M  
1976-012N  
1976-012P  
1976-012Q  
1976-012R

8661  
8662  
8663  
8664  
8665  
8666  
8667  
8668  
8669  
8670  
8671  
8672  
8673

[illegible]

28	JUL	76
11	OCT	76
05	APR	76
11	OCT	76
17	AUG	76
14	JUN	76
18	MAR	76
11	OCT	76
11	OCT	76
11	OCT	76
28	JUL	76
11	OCT	76
25	SEP	76



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-012S	COSMOS 802	8674	USSR	05 FEB	21 JUN 76	
1976-013A		8681	USSR	11 FEB	25 FEB 76	
1976-013B		8686	USSR	11 FEB	17 FEB 76	
1976-013C		8706	USSR	11 FEB	25 FEB 76	
1976-013D		8707	USSR	11 FEB	29 FEB 76	
1976-013E	COSMOS 804	8708	USSR	11 FEB	26 FEB 76	
1976-014B		8689	USSR	12 FEB	09 NOV 83	
1976-014C		8690	USSR	12 FEB	09 DEC 81	
1976-015A		8694	USSR	16 FEB	16 FEB 76	
1976-015B		8695	USSR	16 FEB	26 FEB 76	
1976-016A	COSMOS 805	8696	US	19 FEB	19 FEB 76	
1976-017B		8698	US	19 FEB	16 MAR 76	
1976-017D		8704	US	19 FEB	02 MAR 76	
1976-017E		8705	US	19 FEB	29 FEB 76	
1976-018A		8699	USSR	20 FEB	11 MAR 76	
1976-018B	COSMOS 806	8700	USSR	20 FEB	27 FEB 76	
1976-018C		8703	USSR	20 FEB	22 FEB 76	
1976-020A		8737	USSR	10 MAR	23 MAR 76	
1976-020B		8738	USSR	10 MAR	15 MAR 76	
1976-020C		8768	USSR	10 MAR	30 MAR 76	
1976-020D	MOLNIYA 1-33	8769	USSR	10 MAR	26 MAR 76	
1976-020E		8771	USSR	10 MAR	25 MAR 76	
1976-021A		8741	USSR	11 MAR	10 OCT 90	
1976-021B		8742	USSR	11 MAR	13 APR 76	
1976-021C		8743	USSR	11 MAR	05 APR 76	
1976-021D	COSMOS 808	9411	USSR	11 MAR	01 JUL 91	
1976-023E		8750	US	15 MAR	15 MAR 76	
1976-024A		8754	USSR	16 MAR	20 NOV 93	
1976-025A		8758	USSR	18 MAR	30 MAR 76	
1976-025B		8759	USSR	18 MAR	26 MAR 76	
1976-025C	MOLNIYA 1-34	8760	USSR	18 MAR	19 MAR 76	
1976-025D		8761	USSR	18 MAR	19 MAR 76	
1976-026A		8762	USSR	19 MAR	14 MAY 85	
1976-026B		8763	USSR	19 MAR	27 APR 76	
1976-026C		8767	USSR	19 MAR	07 MAY 76	
1976-026D	COSMOS 810	8792	USSR	19 MAR	02 APR 78	
1976-027A		8770	US	22 MAR	18 MAY 76	
1976-028A		8772	USSR	26 MAR	08 APR 76	
1976-028B		8773	USSR	26 MAR	01 APR 76	
1976-028C		8796	USSR	26 MAR	07 APR 76	
1976-028D	COSMOS 811	8797	USSR	26 MAR	10 APR 76	
1976-028E		8798	USSR	26 MAR	07 APR 76	
1976-029B		8775	US	26 MAR	02 DEC 76	
1976-029C		8793	US	26 MAR	28 JUN 78	
1976-030A		8781	USSR	31 MAR	12 APR 76	
1976-030B	COSMOS 812	8782	USSR	31 MAR	10 APR 76	
1976-030C		8783	USSR	31 MAR	13 APR 76	
1976-030D		8803	USSR	31 MAR	14 APR 76	
1976-030E		8804	USSR	31 MAR	15 APR 76	
1976-030F		8805	USSR	31 MAR	15 APR 76	
1976-031A	COSMOS 812	8794	USSR	06 APR	30 OCT 80	
1976-031B		8795	USSR	06 APR	05 JAN 81	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-031C			9836	USSR	06 APR	18 JUL 78	
1976-031D			9990	USSR	06 APR	27 FEB 78	
1976-033A		COSMOS 813	8801	USSR	09 APR	21 APR 76	
1976-033B			8802	USSR	09 APR	14 APR 76	
1976-034A		COSMOS 814	8806	USSR	13 APR	13 APR 76	
1976-034B			8807	USSR	13 APR	16 APR 76	
1976-035B			8809	US	22 APR	30 MAY 76	
1976-035C			8810	US	22 APR	18 OCT 77	
1976-036A		COSMOS 815	8811	USSR	28 APR	11 MAY 76	
1976-036B			8813	USSR	28 APR	02 MAY 76	
1976-036C			8815	USSR	28 APR	01 MAY 76	
1976-036D			8816	USSR	28 APR	01 MAY 76	
1976-036E			8817	USSR	28 APR	03 MAY 76	
1976-036F			8830	USSR	28 APR	20 MAY 76	
1976-036G			8831	USSR	28 APR	13 MAY 76	
1976-036H			8841	USSR	28 APR	15 MAY 76	
1976-037A			8812	USSR	28 APR	24 NOV 79	
1976-037B		COSMOS 816	8814	USSR	28 APR	16 NOV 79	
1976-037C			8885	USSR	28 APR	12 JUL 77	
1976-037D			8886	USSR	28 APR	26 JUL 77	
1976-037E			9396	USSR	28 APR	12 JUN 77	
1976-037F			9397	USSR	28 APR	17 SEP 77	
1976-037G			9428	USSR	28 APR	09 AUG 77	
1976-037H			9429	USSR	28 APR	10 AUG 77	
1976-037J			9430	USSR	28 APR	29 AUG 77	
1976-037K			9431	USSR	28 APR	24 AUG 77	
1976-037L			9432	USSR	28 APR	20 SEP 77	
1976-037M			9438	USSR	28 APR	19 AUG 77	
1976-037N			9475	USSR	28 APR	02 SEP 77	
1976-037P			9476	USSR	28 APR	16 SEP 77	
1976-037Q			9485	USSR	28 APR	28 OCT 77	
1976-037R			9487	USSR	28 APR	07 SEP 77	
1976-037S			9488	USSR	28 APR	27 SEP 77	
1976-037T			9489	USSR	28 APR	24 SEP 77	
1976-037U			9490	USSR	28 APR	15 SEP 77	
1976-037V			9507	USSR	28 APR	01 AUG 77	
1976-037W			9508	USSR	28 APR	17 SEP 77	
1976-037X			9511	USSR	28 APR	12 OCT 77	
1976-037Y			9512	USSR	28 APR	03 SEP 77	
1976-037Z			9513	USSR	28 APR	17 SEP 77	
1976-037AA			9514	USSR	28 APR	17 OCT 77	
1976-039B			8821	US	04 MAY	22 SEP 91	
1976-039D			14514	US	04 MAY	08 DEC 93	
1976-040A		COSMOS 817	8823	USSR	05 MAY	18 MAY 76	
1976-040B			8824	USSR	05 MAY	10 MAY 76	
1976-040C			8825	USSR	05 MAY	06 MAY 76	
1976-040D			8848	USSR	05 MAY	24 MAY 76	
1976-040E			8849	USSR	05 MAY	19 MAY 76	
1976-040F			8850	USSR	05 MAY	18 MAY 76	
1976-041B			8834	USSR	12 MAY	05 AUG 76	
1976-041C			8837	USSR	12 MAY	08 SEP 76	
1976-041E			8847	USSR	12 MAY	04 JUL 76	

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INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY		NOTES
NAME										
1976-044A	COSMOS 818	8851	USSR	18 MAY	07 MAR 77					
1976-044B		8852	USSR	18 MAY	28 OCT 76					
1976-045A	COSMOS 819	8853	USSR	20 MAY	01 JUN 76					
1976-045B		8854	USSR	20 MAY	30 MAY 76					
1976-045C		8855	USSR	20 MAY	22 MAY 76					
1976-046A	COSMOS 820	8856	USSR	21 MAY	02 JUN 76					
1976-046B		8857	USSR	21 MAY	24 MAY 76					
1976-046C		8858	USSR	21 MAY	21 MAY 76					
1976-046D		8859	USSR	21 MAY	04 JUN 76					
1976-046E		8870	USSR	21 MAY	10 JUN 76					
1976-048A	COSMOS 821	8862	USSR	26 MAY	08 JUN 76					
1976-048B		8863	USSR	26 MAY	07 JUN 76					
1976-048C		8864	USSR	26 MAY	02 JUN 76					
1976-048D		8875	USSR	26 MAY	14 JUN 76					
1976-048E		8876	USSR	26 MAY	09 JUN 76					
1976-048F		8879	USSR	26 MAY	09 JUN 76					
1976-049A	COSMOS 822	8865	USSR	28 MAY	08 AUG 78					
1976-049B		8866	USSR	28 MAY	23 DEC 77					
1976-052A	COSMOS 824	8877	USSR	08 JUN	21 JUN 76					
1976-052B		8878	USSR	08 JUN	20 JUN 76					
1976-052C		8880	USSR	08 JUN	16 JUN 76					
1976-052D		8881	USSR	08 JUN	10 JUN 76					
1976-052E		8905	USSR	08 JUN	27 JUN 76					
1976-052F		8906	USSR	08 JUN	23 JUN 76					
1976-052G		8907	USSR	08 JUN	22 JUN 76					
1976-053B		8883	US	10 JUN	25 AUG 77					
1976-053C		8887	US	10 JUN	02 JUL 76					
1976-053D		8888	US	10 JUN	30 JUN 76					
1976-053E		8902	US	10 JUN	01 JUL 76					
1976-055A	COSMOS 833	8898	USSR	16 JUN	29 JUN 76					
1976-055B		8899	USSR	16 JUN	23 JUN 76					
1976-055C		8900	USSR	16 JUN	17 JUN 76					
1976-055D		8901	USSR	16 JUN	21 JUN 76					
1976-055E		8920	USSR	16 JUN	08 JUL 76					
1976-055F		8921	USSR	16 JUN	01 JUL 76					
1976-055G		8926	USSR	16 JUN	30 JUN 76					
1976-056A		8903	USSR	19 JUN	18 NOV 79					
1976-056B	INTERCOSMOS 15	8904	USSR	19 JUN	15 JAN 80					
1976-057A		8911	USSR	22 JUN	08 AUG 77					
1976-057B	SALYUT 5	8912	USSR	22 JUN	30 JUN 76					
1976-057C		8913	USSR	22 JUN	24 JUN 76					
1976-057D		9059	USSR	22 JUN	13 AUG 76					
1976-057E		9060	USSR	22 JUN	13 AUG 76					
1976-057F		9275	USSR	22 JUN	17 AUG 76					
1976-057G		9276	USSR	22 JUN	05 SEP 76					
1976-057H		9277	USSR	22 JUN	05 SEP 76					
1976-057J		9385	USSR	22 JUN	13 SEP 76					
1976-057K		9386	USSR	22 JUN	22 AUG 76					
1976-058A	COSMOS 834	8914	USSR	24 JUN	06 JUL 76					
1976-058B		8915	USSR	24 JUN	30 JUN 76					
1976-059B		8917	US	26 JUN	30 JUN 76					
1976-060A	COSMOS 835	8922	USSR	29 JUN	12 JUL 76					

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-060B		COSMOS 837	8925	USSR	29 JUN	04 JUL 76	BU*
1976-060C			9014	USSR	29 JUN	20 JUL 76	
1976-060D			9015	USSR	29 JUN	14 JUL 76	
1976-060E			9018	USSR	29 JUN	16 JUL 76	
1976-060A			8927	USSR	01 JUL	18 NOV 83	
1976-062B		COSMOS 838	8928	USSR	01 JUL	05 AUG 76	BU*
1976-062C			8929	USSR	01 JUL	21 JUL 76	
1976-062D			8930	USSR	01 JUL	20 JUL 76	
1976-062E			8931	USSR	01 JUL	26 SEP 82	
1976-063A			8932	USSR	02 JUL	23 AUG 77	
1976-063B			8933	USSR	02 JUL	03 JUL 76	BU*
1976-063C			10047	USSR	02 JUL	13 SEP 77	
1976-063D			10048	USSR	02 JUL	14 AUG 77	
1976-063E			10049	USSR	02 JUL	10 APR 78	
1976-063F			10050	USSR	02 JUL	23 JUL 77	
1976-063G			10051	USSR	02 JUL	01 NOV 77	
1976-063H			10052	USSR	02 JUL	25 MAR 78	
1976-063J			10053	USSR	02 JUL	15 NOV 77	
1976-063K			10054	USSR	02 JUL	08 AUG 78	
1976-063L			10055	USSR	02 JUL	02 DEC 77	
1976-063M			10056	USSR	02 JUL	03 NOV 77	
1976-063N			10057	USSR	02 JUL	15 APR 78	
1976-063P			10058	USSR	02 JUL	20 SEP 77	
1976-063Q			10076	USSR	02 JUL	13 FEB 78	
1976-063R			10077	USSR	02 JUL	12 MAR 78	
1976-063S		10078	USSR	02 JUL	16 NOV 77		
1976-063T		10079	USSR	02 JUL	03 OCT 77		
1976-063U		10080	USSR	02 JUL	19 SEP 78		
1976-063V		10081	USSR	02 JUL	18 APR 78		
1976-063W		10082	USSR	02 JUL	23 SEP 77		
1976-063X		10083	USSR	02 JUL	27 JUL 77		
1976-063Y		10097	USSR	02 JUL	03 MAR 78		
1976-063Z		10098	USSR	02 JUL	23 JUL 77		
1976-063AA		10099	USSR	02 JUL	05 SEP 77		
1976-063AB		10100	USSR	02 JUL	29 OCT 77		
1976-063AC		10101	USSR	02 JUL	20 SEP 77		
1976-063AD		10102	USSR	02 JUL	25 OCT 77		
1976-063AE		10103	USSR	02 JUL	03 JUL 78		
1976-063AF		10104	USSR	02 JUL	19 JUN 78		
1976-063AG		10105	USSR	02 JUL	17 AUG 77		
1976-063AH		10106	USSR	02 JUL	18 APR 78		
1976-063AJ		10107	USSR	02 JUL	03 SEP 77		
1976-063AK		10108	USSR	02 JUL	27 AUG 77		
1976-063AL		10109	USSR	02 JUL	22 SEP 77		
1976-063AM		10110	USSR	02 JUL	03 SEP 78		
1976-063AN		10122	USSR	02 JUL	09 NOV 77		
1976-063AP		10123	USSR	02 JUL	18 AUG 77		
1976-063AQ		10124	USSR	02 JUL	17 AUG 77		
1976-063AR		10125	USSR	02 JUL	28 JUL 77		
1976-063AS		10126	USSR	02 JUL	12 JAN 78		
1976-064A		8934	USSR	06 JUL	24 AUG 76		
1976-064B		8935	USSR	06 JUL	09 JUL 76		

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INTER-NATIONAL DESIGNATION		DECEASED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
DESIGNATION	NAME			NUMBER					
1976-065A				9006	US	08 JUL	13 DEC 76		
1976-065B				9007	US	08 JUL	24 APR 86		
1976-065D				9010	US	08 JUL	10 JUL 76		
1976-066B				9012	US	08 JUL	10 JUL 76		
1976-067AL				10467	USSR	08 JUL	03 JUN 82		
1976-067BL				18272	USSR	08 JUL	01 JAN 93		
1976-067BQ				18673	USSR	08 JUL	10 SEP 88		
1976-068A	COSMOS 840 .			9019	USSR	14 JUL	26 JUL 76		
1976-068B				9020	USSR	14 JUL	25 JUL 76		
1976-068C				9021	USSR	14 JUL	17 JUL 76		
1976-071A	COSMOS 843			9043	USSR	21 JUL	21 JUL 76		
1976-071B				9045	USSR	21 JUL	23 JUL 76		
1976-072A	COSMOS 844			9046	USSR	22 JUL	30 AUG 76		
1976-072B				9048	USSR	22 JUL	30 JUL 76		
1976-072C				9064	USSR	22 JUL	02 AUG 76		
1976-072D				9065	USSR	22 JUL	02 AUG 76		
1976-072E				9066	USSR	22 JUL	02 AUG 76		
1976-072F				9067	USSR	22 JUL	02 AUG 76		
1976-072G				9068	USSR	22 JUL	02 AUG 76		
1976-072H				9069	USSR	22 JUL	02 AUG 76		
1976-072J				9070	USSR	22 JUL	02 AUG 76		
1976-072K				9071	USSR	22 JUL	02 AUG 76		
1976-072L				9072	USSR	22 JUL	02 AUG 76		
1976-072M				9073	USSR	22 JUL	02 AUG 76		
1976-072N				9074	USSR	22 JUL	02 AUG 76		
1976-072P				9075	USSR	22 JUL	02 AUG 76		
1976-072Q				9076	USSR	22 JUL	02 AUG 76		
1976-072R				9077	USSR	22 JUL	02 AUG 76		
1976-072S				9078	USSR	22 JUL	02 AUG 76		
1976-072T				9079	USSR	22 JUL	02 AUG 76		
1976-072U				9080	USSR	22 JUL	02 AUG 76		
1976-072V				9081	USSR	22 JUL	02 AUG 76		
1976-072W				9082	USSR	22 JUL	02 AUG 76		
1976-072X				9083	USSR	22 JUL	02 AUG 76		
1976-072Y				9084	USSR	22 JUL	02 AUG 76		
1976-072Z				9085	USSR	22 JUL	02 AUG 76		
1976-072AA				9086	USSR	22 JUL	02 AUG 76		
1976-072AB				9087	USSR	22 JUL	02 AUG 76		
1976-072AC				9088	USSR	22 JUL	02 AUG 76		
1976-072AD				9089	USSR	22 JUL	02 AUG 76		
1976-072AE				9090	USSR	22 JUL	02 AUG 76		
1976-072AF				9091	USSR	22 JUL	02 AUG 76		
1976-072AG				9092	USSR	22 JUL	02 AUG 76		
1976-072AH				9093	USSR	22 JUL	02 AUG 76		
1976-072AJ				9094	USSR	22 JUL	02 AUG 76		
1976-072AK				9095	USSR	22 JUL	02 AUG 76		
1976-072AL				9096	USSR	22 JUL	02 AUG 76		
1976-072AM				9097	USSR	22 JUL	02 AUG 76		
1976-072AN				9098	USSR	22 JUL	02 AUG 76		
1976-072AP				9099	USSR	22 JUL	02 AUG 76		
1976-072AQ				9100	USSR	22 JUL	02 AUG 76		
1976-072AR				9101	USSR	22 JUL	02 AUG 76		

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-072AS		9102	USSR	22 JUL	02 AUG 76	
1976-072AT		9103	USSR	22 JUL	02 AUG 76	
1976-072AU		9104	USSR	22 JUL	02 AUG 76	
1976-072AV		9105	USSR	22 JUL	02 AUG 76	
1976-072AW		9106	USSR	22 JUL	02 AUG 76	
1976-072AX		9107	USSR	22 JUL	02 AUG 76	
1976-072AY		9108	USSR	22 JUL	02 AUG 76	
1976-072AZ		9109	USSR	22 JUL	02 AUG 76	
1976-072BA		9110	USSR	22 JUL	02 AUG 76	
1976-072BB		9111	USSR	22 JUL	02 AUG 76	
1976-072BC		9112	USSR	22 JUL	02 AUG 76	
1976-072BD		9113	USSR	22 JUL	02 AUG 76	
1976-072BE		9114	USSR	22 JUL	02 AUG 76	
1976-072BF		9115	USSR	22 JUL	02 AUG 76	
1976-072BG		9116	USSR	22 JUL	02 AUG 76	
1976-072BH		9117	USSR	22 JUL	02 AUG 76	
1976-072BJ		9118	USSR	22 JUL	02 AUG 76	
1976-072BK		9119	USSR	22 JUL	02 AUG 76	
1976-072BL		9120	USSR	22 JUL	02 AUG 76	
1976-072BM		9121	USSR	22 JUL	02 AUG 76	
1976-072BN		9122	USSR	22 JUL	02 AUG 76	
1976-072BP		9123	USSR	22 JUL	02 AUG 76	
1976-072BQ		9124	USSR	22 JUL	02 AUG 76	
1976-072BR		9125	USSR	22 JUL	02 AUG 76	
1976-072BS		9126	USSR	22 JUL	02 AUG 76	
1976-072BT		9127	USSR	22 JUL	02 AUG 76	
1976-072BU		9128	USSR	22 JUL	02 AUG 76	
1976-072BV		9129	USSR	22 JUL	02 AUG 76	
1976-072BW		9130	USSR	22 JUL	02 AUG 76	
1976-072BX		9131	USSR	22 JUL	02 AUG 76	
1976-072BY		9132	USSR	22 JUL	02 AUG 76	
1976-072BZ		9133	USSR	22 JUL	02 AUG 76	
1976-072CA		9134	USSR	22 JUL	02 AUG 76	
1976-072CB		9135	USSR	22 JUL	02 AUG 76	
1976-072CC		9136	USSR	22 JUL	02 AUG 76	
1976-072CD		9137	USSR	22 JUL	02 AUG 76	
1976-072CE		9138	USSR	22 JUL	02 AUG 76	
1976-072CF		9139	USSR	22 JUL	02 AUG 76	
1976-072CG		9140	USSR	22 JUL	02 AUG 76	
1976-072CH		9141	USSR	22 JUL	02 AUG 76	
1976-072CJ		9142	USSR	22 JUL	02 AUG 76	
1976-072CK		9143	USSR	22 JUL	02 AUG 76	
1976-072CL		9144	USSR	22 JUL	02 AUG 76	
1976-072CM		9145	USSR	22 JUL	02 AUG 76	
1976-072CN		9146	USSR	22 JUL	02 AUG 76	
1976-072CP		9147	USSR	22 JUL	02 AUG 76	
1976-072CQ		9148	USSR	22 JUL	02 AUG 76	
1976-072CR		9149	USSR	22 JUL	02 AUG 76	
1976-072CS		9150	USSR	22 JUL	02 AUG 76	
1976-072CT		9151	USSR	22 JUL	02 AUG 76	
1976-072CU		9152	USSR	22 JUL	02 AUG 76	
1976-072CV		9153	USSR	22 JUL	02 AUG 76	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-072CW		9154	USSR	22 JUL	02 AUG 76	
1976-072CX		9155	USSR	22 JUL	02 AUG 76	
1976-072CY		9156	USSR	22 JUL	02 AUG 76	
1976-072CZ		9157	USSR	22 JUL	02 AUG 76	
1976-072DA		9158	USSR	22 JUL	02 AUG 76	
1976-072DB		9159	USSR	22 JUL	02 AUG 76	
1976-072DC		9160	USSR	22 JUL	02 AUG 76	
1976-072DD		9161	USSR	22 JUL	02 AUG 76	
1976-072DE		9162	USSR	22 JUL	02 AUG 76	
1976-072DF		9163	USSR	22 JUL	02 AUG 76	
1976-072DG		9164	USSR	22 JUL	02 AUG 76	
1976-072DH		9165	USSR	22 JUL	02 AUG 76	
1976-072DJ		9166	USSR	22 JUL	02 AUG 76	
1976-072DK		9167	USSR	22 JUL	02 AUG 76	
1976-072DL		9168	USSR	22 JUL	02 AUG 76	
1976-072DM		9169	USSR	22 JUL	02 AUG 76	
1976-072DN		9170	USSR	22 JUL	02 AUG 76	
1976-072DP		9171	USSR	22 JUL	02 AUG 76	
1976-072DQ		9172	USSR	22 JUL	02 AUG 76	
1976-072DR		9173	USSR	22 JUL	02 AUG 76	
1976-072DS		9174	USSR	22 JUL	02 AUG 76	
1976-072DT		9175	USSR	22 JUL	02 AUG 76	
1976-072DU		9176	USSR	22 JUL	02 AUG 76	
1976-072DV		9177	USSR	22 JUL	02 AUG 76	
1976-072DW		9178	USSR	22 JUL	02 AUG 76	
1976-072DX		9179	USSR	22 JUL	02 AUG 76	
1976-072DY		9180	USSR	22 JUL	02 AUG 76	
1976-072DZ		9181	USSR	22 JUL	02 AUG 76	
1976-072EA		9182	USSR	22 JUL	02 AUG 76	
1976-072EB		9183	USSR	22 JUL	02 AUG 76	
1976-072EC		9184	USSR	22 JUL	02 AUG 76	
1976-072ED		9185	USSR	22 JUL	02 AUG 76	
1976-072EE		9186	USSR	22 JUL	02 AUG 76	
1976-072EF		9187	USSR	22 JUL	02 AUG 76	
1976-072EG		9188	USSR	22 JUL	02 AUG 76	
1976-072EH		9189	USSR	22 JUL	02 AUG 76	
1976-072EJ		9190	USSR	22 JUL	02 AUG 76	
1976-072EK		9191	USSR	22 JUL	02 AUG 76	
1976-072EL		9192	USSR	22 JUL	02 AUG 76	
1976-072EM		9193	USSR	22 JUL	02 AUG 76	
1976-072EN		9194	USSR	22 JUL	02 AUG 76	
1976-072EP		9195	USSR	22 JUL	02 AUG 76	
1976-072EQ		9196	USSR	22 JUL	02 AUG 76	
1976-072ER		9197	USSR	22 JUL	02 AUG 76	
1976-072ES		9198	USSR	22 JUL	02 AUG 76	
1976-072ET		9199	USSR	22 JUL	02 AUG 76	
1976-072EU		9200	USSR	22 JUL	02 AUG 76	
1976-072EV		9201	USSR	22 JUL	02 AUG 76	
1976-072EW		9202	USSR	22 JUL	02 AUG 76	
1976-072EX		9203	USSR	22 JUL	02 AUG 76	
1976-072EY		9204	USSR	22 JUL	02 AUG 76	
1976-072EZ		9205	USSR	22 JUL	02 AUG 76	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-072FA		9206	USSR	22 JUL	02 AUG 76	
1976-072FB		9207	USSR	22 JUL	02 AUG 76	
1976-072FC		9208	USSR	22 JUL	02 AUG 76	
1976-072FD		9209	USSR	22 JUL	02 AUG 76	
1976-072FE		9210	USSR	22 JUL	02 AUG 76	
1976-072FF		9211	USSR	22 JUL	02 AUG 76	
1976-072FG		9212	USSR	22 JUL	02 AUG 76	
1976-072FH		9213	USSR	22 JUL	02 AUG 76	
1976-072FI		9214	USSR	22 JUL	05 AUG 76	
1976-072FJ		9215	USSR	22 JUL	05 AUG 76	
1976-072FK		9216	USSR	22 JUL	05 AUG 76	
1976-072FL		9217	USSR	22 JUL	05 AUG 76	
1976-072FM		9218	USSR	22 JUL	05 AUG 76	
1976-072FN		9219	USSR	22 JUL	05 AUG 76	
1976-072FO		9220	USSR	22 JUL	05 AUG 76	
1976-072FP		9221	USSR	22 JUL	05 AUG 76	
1976-072FQ		9222	USSR	22 JUL	05 AUG 76	
1976-072FR		9223	USSR	22 JUL	05 AUG 76	
1976-072FS		9224	USSR	22 JUL	05 AUG 76	
1976-072FT		9225	USSR	22 JUL	05 AUG 76	
1976-072FU		9226	USSR	22 JUL	05 AUG 76	
1976-072FV		9227	USSR	22 JUL	05 AUG 76	
1976-072FW		9228	USSR	22 JUL	05 AUG 76	
1976-072FX		9229	USSR	22 JUL	05 AUG 76	
1976-072FY		9230	USSR	22 JUL	05 AUG 76	
1976-072FZ		9231	USSR	22 JUL	05 AUG 76	
1976-072GA		9232	USSR	22 JUL	05 AUG 76	
1976-072GB		9233	USSR	22 JUL	05 AUG 76	
1976-072GC		9234	USSR	22 JUL	05 AUG 76	
1976-072GD		9235	USSR	22 JUL	05 AUG 76	
1976-072GE		9236	USSR	22 JUL	05 AUG 76	
1976-072GF		9237	USSR	22 JUL	05 AUG 76	
1976-072GG		9238	USSR	22 JUL	05 AUG 76	
1976-072GH		9239	USSR	22 JUL	05 AUG 76	
1976-072GI		9240	USSR	22 JUL	05 AUG 76	
1976-072GJ		9241	USSR	22 JUL	05 AUG 76	
1976-072GK		9242	USSR	22 JUL	05 AUG 76	
1976-072GL		9243	USSR	22 JUL	05 AUG 76	
1976-072GM		9244	USSR	22 JUL	05 AUG 76	
1976-072GN		9245	USSR	22 JUL	05 AUG 76	
1976-072GO		9246	USSR	22 JUL	05 AUG 76	
1976-072GP		9247	USSR	22 JUL	05 AUG 76	
1976-072GQ		9248	USSR	22 JUL	05 AUG 76	
1976-072GR		9249	USSR	22 JUL	05 AUG 76	
1976-072GS		9250	USSR	22 JUL	05 AUG 76	
1976-072GT		9251	USSR	22 JUL	05 AUG 76	
1976-072GU		9252	USSR	22 JUL	05 AUG 76	
1976-072GV		9253	USSR	22 JUL	05 AUG 76	
1976-072GW		9254	USSR	22 JUL	05 AUG 76	
1976-072GX		9255	USSR	22 JUL	05 AUG 76	
1976-072GY		9256	USSR	22 JUL	05 AUG 76	
1976-072GZ		9257	USSR	22 JUL	05 AUG 76	
1976-072HA		9258	USSR	22 JUL	05 AUG 76	
1976-072HB		9259	USSR	22 JUL	05 AUG 76	
1976-072HC		9260	USSR	22 JUL	05 AUG 76	



DECEASED OBJECTS

INTER - NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-072HE		9261	USSR	22 JUL	05 AUG 76	
1976-072HF		9262	USSR	22 JUL	05 AUG 76	
1976-072HG		9263	USSR	22 JUL	05 AUG 76	
1976-072HH		9264	USSR	22 JUL	05 AUG 76	
1976-072HJ		9265	USSR	22 JUL	05 AUG 76	
1976-072HK		9266	USSR	22 JUL	05 AUG 76	
1976-072HL		9331	USSR	22 JUL	13 AUG 76	
1976-072HM		9332	USSR	22 JUL	13 AUG 76	
1976-072HN		9333	USSR	22 JUL	13 AUG 76	
1976-072HP		9334	USSR	22 JUL	13 AUG 76	
1976-072HQ		9335	USSR	22 JUL	13 AUG 76	
1976-072HR		9336	USSR	22 JUL	13 AUG 76	
1976-072HS		9337	USSR	22 JUL	13 AUG 76	
1976-072HT		9338	USSR	22 JUL	13 AUG 76	
1976-072HU		9339	USSR	22 JUL	13 AUG 76	
1976-072HV		9340	USSR	22 JUL	13 AUG 76	
1976-072HW		9341	USSR	22 JUL	13 AUG 76	
1976-072HX		9342	USSR	22 JUL	13 AUG 76	
1976-072HY		9343	USSR	22 JUL	13 AUG 76	
1976-072HZ		9344	USSR	22 JUL	13 AUG 76	
1976-072JA		9345	USSR	22 JUL	13 AUG 76	
1976-072JB		9346	USSR	22 JUL	13 AUG 76	
1976-072JC		9347	USSR	22 JUL	13 AUG 76	
1976-072JD		9348	USSR	22 JUL	13 AUG 76	
1976-072JE		9349	USSR	22 JUL	13 AUG 76	
1976-072JF		9350	USSR	22 JUL	13 AUG 76	
1976-072JG		9351	USSR	22 JUL	13 AUG 76	
1976-072JH		9352	USSR	22 JUL	13 AUG 76	
1976-072JI		9353	USSR	22 JUL	13 AUG 76	
1976-072JK		9354	USSR	22 JUL	13 AUG 76	
1976-072JL		9355	USSR	22 JUL	13 AUG 76	
1976-072JM		9356	USSR	22 JUL	13 AUG 76	
1976-072JN		9357	USSR	22 JUL	13 AUG 76	
1976-072JP		9358	USSR	22 JUL	13 AUG 76	
1976-072JQ		9359	USSR	22 JUL	13 AUG 76	
1976-072JR		9360	USSR	22 JUL	13 AUG 76	
1976-072JS		9361	USSR	22 JUL	13 AUG 76	
1976-072JT		9362	USSR	22 JUL	13 AUG 76	
1976-072JU		9363	USSR	22 JUL	13 AUG 76	
1976-072JV		9364	USSR	22 JUL	13 AUG 76	
1976-072JW		9365	USSR	22 JUL	13 AUG 76	
1976-072JX		9366	USSR	22 JUL	13 AUG 76	
1976-072JY		9367	USSR	22 JUL	13 AUG 76	
1976-072JZ		9368	USSR	22 JUL	13 AUG 76	
1976-072KA		9369	USSR	22 JUL	13 AUG 76	
1976-072KB		9370	USSR	22 JUL	13 AUG 76	
1976-072KC		9371	USSR	22 JUL	13 AUG 76	
1976-072KD		9372	USSR	22 JUL	13 AUG 76	
1976-072KE		9373	USSR	22 JUL	13 AUG 76	
1976-072KF		9378	USSR	22 JUL	17 AUG 76	
1976-072KG		9379	USSR	22 JUL	17 AUG 76	
1976-072KH		9380	USSR	22 JUL	17 AUG 76	

INTER- NATIONAL DESIGNATION	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-072KU		9381	USSR	22 JUL	17 AUG 76	
1976-074A	MOLNIYA 1-35	9049	USSR	23 JUL	29 MAY 87	
1976-074B		9050	USSR	23 JUL	02 OCT 76	
1976-074C		9051	USSR	23 JUL	18 SEP 76	
1976-074D		9052	USSR	23 JUL	01 SEP 76	
1976-074E		9269	USSR	23 JUL	09 SEP 91	
1976-075A	COSMOS 845	9053	USSR	27 JUL	15 NOV 80	
1976-075B		9054	USSR	27 JUL	28 FEB 81	
1976-075C		9058	USSR	27 JUL	18 JUL 78	
1976-075D		9267	USSR	27 JUL	14 OCT 78	
1976-075E		9268	USSR	27 JUL	17 FEB 79	
1976-075F		9665	USSR	27 JUL	18 JUL 78	
1976-075G		9718	USSR	27 JUL	27 MAR 78	
1976-075H		9789	USSR	27 JUL	24 JUN 78	
1976-076A		9055	USSR	27 JUL	10 JUL 79	
1976-076B	INTERCOSMOS 16	9056	USSR	27 JUL	21 FEB 80	
1976-077BA		10753	US	29 JUL	02 JAN 82	
1976-077BX		10827	US	29 JUL	11 SEP 88	
1976-077DV		12541	US	29 JUL	10 MAY 92	
1976-077EW		16999	US	29 JUL	01 AUG 88	
1976-079A	COSMOS 847	9214	USSR	04 AUG	17 AUG 76	
1976-079B		9215	USSR	04 AUG	11 AUG 76	
1976-079C		9216	USSR	04 AUG	05 AUG 76	
1976-079D		9376	USSR	04 AUG	23 AUG 76	
1976-079E		9377	USSR	04 AUG	18 AUG 76	
1976-081A	LUNA 24	9272	USSR	09 AUG	18 AUG 76	
1976-081B		9273	USSR	09 AUG	09 AUG 76	
1976-081C		9274	USSR	09 AUG	15 AUG 76	
1976-081D		9278	USSR	09 AUG	14 AUG 76	
1976-081E	LUNA 24 DESCENT CRAFT	9384	USSR	09 AUG	22 AUG 76	
1976-082A		9280	USSR	12 AUG	25 AUG 76	
1976-082B		9281	USSR	12 AUG	24 AUG 76	
1976-082C		9328	USSR	12 AUG	17 AUG 76	
1976-082D		9374	USSR	12 AUG	01 SEP 76	
1976-082E		9375	USSR	12 AUG	24 AUG 76	
1976-083A	COSMOS 849	9382	USSR	18 AUG	24 APR 78	
1976-083B		9383	USSR	18 AUG	02 NOV 77	
1976-083C		9407	USSR	18 AUG	16 FEB 77	
1976-084A	COSMOS 850	9387	USSR	26 AUG	16 MAY 77	
1976-084B		9388	USSR	26 AUG	14 JAN 77	
1976-085A	COSMOS 851	9389	USSR	27 AUG	05 AUG 89	
1976-085B		9390	USSR	27 AUG	22 MAR 92	
1976-086A	COSMOS 852	9391	USSR	28 AUG	10 SEP 76	
1976-086B		9392	USSR	28 AUG	02 SEP 76	
1976-086C		9393	USSR	28 AUG	29 AUG 76	
1976-086D		9412	USSR	28 AUG	16 SEP 76	
1976-086E		9413	USSR	28 AUG	11 SEP 76	
1976-086F		9414	USSR	28 AUG	11 SEP 76	
1976-087A	MAO 6	9394	PRC	30 AUG	25 NOV 78	
1976-087B		9395	PRC	30 AUG	04 FEB 78	
1976-088A	COSMOS 853	9398	USSR	01 SEP	31 DEC 76	
1976-088B		9399	USSR	01 SEP	10 OCT 76	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976--088C		9400	USSR	01 SEP	20 MAY 77	
1976--088D		9402	USSR	01 SEP	09 DEC 76	
1976--089A	TIP 3	9403	US	01 SEP	30 MAY 81	
1976--089B		9404	US	01 SEP	29 JUN 78	
1976--089C		9409	US	01 SEP	01 MAR 78	
1976--089D		9410	US	01 SEP	17 MAY 78	
1976--090A	COSMOS 854	9405	USSR	03 SEP	16 SEP 76	
1976--090B		9406	USSR	03 SEP	07 SEP 76	
1976--090C		9422	USSR	03 SEP	19 SEP 76	
1976--090D		9423	USSR	03 SEP	17 SEP 76	
1976--091D		9474	US	11 SEP	20 SEP 80	
1976--091E		9483	US	11 SEP	24 AUG 83	
1976--092B		9417	USSR	11 SEP	14 SEP 76	
1976--092C		9418	USSR	11 SEP	12 SEP 76	
1976--092D		9440	USSR	11 SEP	19 JUL 77	
1976--092E		9441	USSR	11 SEP	20 MAY 77	
1976--093A	SOYUZ 22	9421	USSR	15 SEP	23 SEP 76	
1976--093B		9424	USSR	15 SEP	20 SEP 76	
1976--093C		9425	USSR	15 SEP	16 SEP 76	
1976--094A		9426	US	15 SEP	05 NOV 76	
1976--094B		9427	US	15 SEP	17 SEP 76	
1976--095A	COSMOS 855	9433	USSR	21 SEP	03 OCT 76	
1976--095B		9434	USSR	21 SEP	02 OCT 76	
1976--095C		9445	USSR	21 SEP	06 OCT 76	
1976--095D		9446	USSR	21 SEP	08 OCT 76	
1976--096A	COSMOS 856	9435	USSR	22 SEP	05 OCT 76	
1976--096B		9436	USSR	22 SEP	30 SEP 76	
1976--096C		9437	USSR	22 SEP	23 SEP 76	
1976--096D		9447	USSR	22 SEP	16 OCT 76	
1976--096E		9448	USSR	22 SEP	08 OCT 76	
1976--097A	COSMOS 857	9439	USSR	24 SEP	07 OCT 76	
1976--097B		9442	USSR	24 SEP	29 SEP 76	
1976--097C		9449	USSR	24 SEP	15 OCT 76	
1976--097D		9450	USSR	24 SEP	08 OCT 76	
1976--097E		9451	USSR	24 SEP	09 OCT 76	
1976--097F		9470	USSR	24 SEP	11 OCT 76	
1976--099A	COSMOS 859	9471	USSR	10 OCT	21 OCT 76	
1976--099B		9472	USSR	10 OCT	15 OCT 76	
1976--099C		9473	USSR	10 OCT	11 OCT 76	
1976--099D		9491	USSR	10 OCT	24 OCT 76	
1976--099E		9492	USSR	10 OCT	25 OCT 76	
1976--100A	SOYUZ 23	9477	USSR	14 OCT	16 OCT 76	
1976--100B		9480	USSR	14 OCT	16 OCT 76	
1976--101B		9479	US	14 OCT	15 NOV 76	
1976--101C		9493	US	14 OCT	01 NOV 76	
1976--101D		9498	US	14 OCT	04 NOV 76	
1976--101E		9542	US	14 OCT	12 MAY 77	
1976--103B		9531	USSR	17 OCT	29 DEC 76	
1976--103C		9537	USSR	17 OCT	14 NOV 76	
1976--103D		9538	USSR	17 OCT	15 NOV 76	
1976--103E		9539	USSR	17 OCT	12 NOV 76	
1976--104B		9633	USSR	21 OCT	21 OCT 76	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES	
1976-104C		COSMOS 863	9631	USSR	21 OCT	04 FEB 77		
1976-104D			9632	USSR	21 OCT	25 DEC 76		
1976-105B			9496	USSR	22 OCT	27 DEC 76		
1976-105C			9497	USSR	22 OCT	10 DEC 76		
1976-106A			9499	USSR	25 OCT	05 NOV 76		
1976-106B		COSMOS 865	9500	USSR	25 OCT	01 NOV 76		
1976-106C			9501	USSR	25 OCT	29 OCT 76		
1976-106D			9502	USSR	25 OCT	26 OCT 76		
1976-106E			9521	USSR	25 OCT	11 NOV 76		
1976-106F			9522	USSR	25 OCT	07 NOV 76		
1976-106G			9524	USSR	25 OCT	07 NOV 76		
1976-106H			9527	USSR	25 OCT	09 NOV 76		
1976-106J			9528	USSR	25 OCT	10 NOV 76		
1976-106K			9529	USSR	25 OCT	07 NOV 76		
1976-107B			9504	USSR	26 OCT	29 OCT 76		
1976-107C			9505	USSR	26 OCT	27 OCT 76		
1976-107D			9540	USSR	26 OCT	26 JUN 77		
1976-107E			9541	USSR	26 OCT	20 MAY 77		
1976-109A			COSMOS 866	9515	USSR	01 NOV	13 NOV 76	
1976-109B				9516	USSR	01 NOV	14 NOV 76	
1976-109C		9517		USSR	01 NOV	05 NOV 76		
1976-109D		9519		USSR	01 NOV	07 NOV 76		
1976-109E		9520		USSR	01 NOV	22 NOV 76		
1976-109F		9523		USSR	01 NOV	10 NOV 76		
1976-109G		9525		USSR	01 NOV	10 FEB 77		
1976-109H		9526		USSR	01 NOV	05 FEB 77		
1976-110A		9532		USSR	11 NOV	23 NOV 76		
1976-110B		COSMOS 867		9533	USSR	11 NOV	14 NOV 76	
1976-110C			9534	USSR	11 NOV	16 NOV 76		
1976-110D			9535	USSR	11 NOV	14 NOV 76		
1976-110E			9536	USSR	11 NOV	13 NOV 76		
1976-110F			9551	USSR	11 NOV	24 NOV 76		
1976-110G			9553	USSR	11 NOV	23 NOV 76		
1976-111A			9552	USSR	23 NOV	06 DEC 76		
1976-111B			9554	USSR	23 NOV	01 FEB 77		
1976-111C			9555	USSR	23 NOV	16 DEC 76		
1976-111D			9556	USSR	23 NOV	08 DEC 76		
1976-111E		COSMOS 868	9566	USSR	23 NOV	11 DEC 76		
1976-111F			9582	USSR	23 NOV	07 JAN 78		
1976-111G			9583	USSR	23 NOV	26 MAY 77		
1976-111H			9584	USSR	23 NOV	20 MAR 77		
1976-111J			9585	USSR	23 NOV	07 JUL 77		
1976-111K			9586	USSR	23 NOV	05 MAR 77		
1976-112B			9558	USSR	25 NOV	23 JAN 77		
1976-112C			9559	USSR	25 NOV	05 JAN 77		
1976-112D			9560	USSR	25 NOV	24 JAN 77		
1976-113A			9561	USSR	26 NOV	08 JUL 78		
1976-113B			9562	USSR	26 NOV	27 NOV 76		
1976-114A			9564	USSR	29 NOV	17 DEC 76		
1976-114B			9565	USSR	29 NOV	06 DEC 76		
1976-115A			COSMOS 870	9573	USSR	02 DEC	20 DEC 80	
1976-115B				9576	USSR	02 DEC	28 FEB 81	

INTER- NATIONAL DESIGNATION	DECEASED OBJECTS NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-115C	MOLNIYA 2-16	9577	USSR	02 DEC	10 FEB 78	
1976-115D		9991	USSR	02 DEC	30 APR 78	
1976-115E		9992	USSR	02 DEC	11 JUN 78	
1976-115F		9993	USSR	02 DEC	07 MAR 80	
1976-116A		9574	USSR	02 DEC	21 FEB 91	
1976-116B	MAO 7	9575	USSR	02 DEC	04 MAR 77	
1976-116C		9578	USSR	02 DEC	07 FEB 77	
1976-116D		9579	USSR	02 DEC	19 SEP 91	
1976-116E		9580	USSR	02 DEC	13 FEB 77	
1976-116F		9581	USSR	02 DEC	11 JAN 77	
1976-117A	COSMOS 879	9587	PRC	07 DEC	02 JAN 77	
1976-117B		9596	PRC	07 DEC	29 DEC 76	
1976-117C		9597	PRC	07 DEC	09 DEC 76	
1976-119A		9599	USSR	09 DEC	22 DEC 76	
1976-119B		9600	USSR	09 DEC	12 DEC 76	
1976-119C	COSMOS 880	9602	USSR	09 DEC	03 JAN 77	
1976-119D		9603	USSR	09 DEC	15 DEC 76	
1976-120A		9601	USSR	09 DEC	08 OCT 79	
1976-120B		9604	USSR	09 DEC	21 DEC 84	
1976-120C		9605	USSR	09 DEC	01 NOV 81	
1976-120D	COSMOS 880	11178	USSR	09 DEC	12 JUN 81	
1976-120E		11179	USSR	09 DEC	06 MAR 80	
1976-120F		11180	USSR	09 DEC	25 FEB 79	
1976-120G		11181	USSR	09 DEC	20 JUL 79	
1976-120H		11182	USSR	09 DEC	27 OCT 79	
1976-120J	COSMOS 880	11183	USSR	09 DEC	14 APR 79	
1976-120K		11184	USSR	09 DEC	06 JUL 79	
1976-120L		11185	USSR	09 DEC	05 APR 79	
1976-120M		11186	USSR	09 DEC	13 NOV 80	
1976-120N		11187	USSR	09 DEC	02 APR 79	
1976-120P	COSMOS 880	11188	USSR	09 DEC	05 MAR 79	
1976-120Q		11189	USSR	09 DEC	23 FEB 79	
1976-120R		11190	USSR	09 DEC	26 MAR 79	
1976-120S		11191	USSR	09 DEC	16 JUN 79	
1976-120T		11192	USSR	09 DEC	05 JUL 79	
1976-120U	COSMOS 880	11193	USSR	09 DEC	03 SEP 91	
1976-120V		11194	USSR	09 DEC	12 JUL 79	
1976-120W		11195	USSR	09 DEC	23 FEB 79	
1976-120X		11196	USSR	09 DEC	07 APR 79	
1976-120Y		11197	USSR	09 DEC	31 MAR 79	
1976-120Z	COSMOS 880	11198	USSR	09 DEC	15 MAR 79	
1976-120AA		11199	USSR	09 DEC	18 FEB 79	
1976-120AB		11200	USSR	09 DEC	10 JUL 79	
1976-120AC		11201	USSR	09 DEC	09 DEC 79	
1976-120AD		11202	USSR	09 DEC	13 JUL 79	
1976-120AE	COSMOS 880	11203	USSR	09 DEC	10 SEP 79	
1976-120AF		11204	USSR	09 DEC	01 AUG 91	
1976-120AG		11205	USSR	09 DEC	11 JUL 90	
1976-120AH		11206	USSR	09 DEC	26 FEB 79	
1976-120AJ		11207	USSR	09 DEC	20 NOV 85	
1976-120AK	COSMOS 880	11208	USSR	09 DEC	11 NOV 79	
1976-120AL		11209	USSR	09 DEC	01 DEC 82	

INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1976-120AM			11210		USSR	09 DEC	30 JUL 83	
1976-120AN			11211		USSR	09 DEC	29 MAR 79	
1976-120AP			11212		USSR	09 DEC	15 JUL 84	
1976-120AQ			11213		USSR	09 DEC	23 NOV 90	
1976-120AR			11214		USSR	09 DEC	15 SEP 91	
1976-120AS			11215		USSR	09 DEC	24 MAY 79	
1976-120AV			11218		USSR	09 DEC	05 FEB 80	
1976-120AX			11219		USSR	09 DEC	19 MAY 83	
1976-120AZ			11220		USSR	09 DEC	16 JUN 79	
1976-120BA			11222		USSR	09 DEC	14 AUG 91	
1976-120BB			11223		USSR	09 DEC	03 JUN 79	
1976-120BC			11224		USSR	09 DEC	19 AUG 79	
1976-121A			11225		USSR	09 DEC	15 DEC 76	
COSMOS 881			9606		USSR	15 DEC	15 DEC 76	
1976-121B			9607		USSR	15 DEC	15 DEC 76	
COSMOS 882			9608		USSR	15 DEC	20 DEC 76	
1976-121C			9609		USSR	15 DEC	23 DEC 76	
1976-121D			9611		USSR	15 DEC	26 DEC 76	
1976-121E			9612		USSR	15 DEC	21 DEC 76	
1976-121F			9614		USSR	17 DEC	29 DEC 76	
1976-123A		COSMOS 884	9623		USSR	17 DEC	23 DEC 76	
1976-123B			9624		USSR	17 DEC	31 JAN 77	
1976-123C			9639		USSR	17 DEC	31 DEC 76	
1976-123D			9640		USSR	17 DEC	01 JAN 77	
1976-123E			9646		USSR	17 DEC	03 JAN 77	
1976-123F			9615		USSR	17 DEC	14 OCT 79	
1976-124A		COSMOS 885	9625		USSR	17 DEC	05 SEP 79	
1976-124B			9626		USSR	17 DEC	29 OCT 77	
1976-124C			9897		USSR	17 DEC	22 NOV 77	
1976-124D			9901		USSR	17 DEC	11 NOV 77	
1976-124E			9914		USSR	17 DEC	09 DEC 77	
1976-124F			9915		USSR	17 DEC	29 NOV 77	
1976-124G			9916		USSR	17 DEC	16 NOV 77	
1976-124H			9917		USSR	17 DEC	05 NOV 77	
1976-124J			9918		USSR	17 DEC	20 NOV 77	
1976-124K			9919		USSR	17 DEC	10 NOV 77	
1976-124L			9920		USSR	17 DEC	22 DEC 77	
1976-124M			9922		USSR	17 DEC	16 NOV 77	
1976-124N			9923		USSR	17 DEC	09 DEC 77	
1976-124P			9924		USSR	17 DEC	14 DEC 77	
1976-124Q			9925		USSR	17 DEC	22 NOV 77	
1976-124R			9926		USSR	17 DEC	01 DEC 77	
1976-124S			9926		USSR	17 DEC	17 DEC 77	
1976-124T			9999		USSR	17 DEC	17 OCT 77	
1976-124U			10391		USSR	17 DEC	11 JAN 78	
1976-125A			9627		US	19 DEC	28 JAN 79	
1976-125B			9628		US	19 DEC	09 MAY 77	
1976-125C			9629		US	19 DEC	23 FEB 77	
1976-125D			9630		US	19 DEC	09 FEB 77	
1976-126B			9643		USSR	27 DEC	30 DEC 76	
1976-126C			9644		USSR	27 DEC	31 DEC 76	
1976-126D			9645		USSR	27 DEC	14 JAN 77	
1976-126P			9657		USSR	27 DEC	06 JAN 91	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976-1260		9719	USSR	27 DEC	11 JUL 78	
1976-126R		9720	USSR	27 DEC	09 OCT 81	
1976-126W		9725	USSR	27 DEC	21 DEC 92	
1976-126AD		9817	USSR	27 DEC	12 JUL 82	
1976-126AM		9825	USSR	27 DEC	12 MAR 82	
1976-126AS		9952	USSR	27 DEC	11 OCT 80	
1976-126AZ		9959	USSR	27 DEC	20 JUN 82	
1976-126BH		9967	USSR	27 DEC	05 MAR 91	
1976-126BJ		10396	USSR	27 DEC	08 JAN 84	
1976-126BX		18891	USSR	27 DEC	03 JAN 90	
1976-126CE		19480	USSR	27 DEC	06 FEB 90	
1976-127A	MOLNIYA 3-6	9635	USSR	28 DEC	16 MAR 77	
1976-127B		9636	USSR	28 DEC	15 FEB 77	
1976-127C		9641	USSR	28 DEC	23 FEB 77	
1976-127D		9642	USSR	28 DEC	30 SEP 87	
1976-127E		9647	USSR	28 DEC		
1977 LAUNCHES						
1977-001A	COSMOS 888	9658	USSR	06 JAN	19 JAN 77	
1977-001B		9659	USSR	06 JAN	11 JAN 77	
1977-001C		9660	USSR	06 JAN	11 JAN 77	
1977-001D		9732	USSR	06 JAN	23 JAN 77	
1977-001E		9733	USSR	06 JAN	21 JAN 77	
1977-001F		9734	USSR	06 JAN	20 JAN 77	
1977-003A	COSMOS 889	9735	USSR	20 JAN	01 FEB 77	
1977-003B		9736	US	20 JAN	06 FEB 81	
1977-005C		9787	USSR	28 JAN	04 FEB 81	
1977-006A	COSMOS 891	9801	USSR	02 FEB	18 DEC 79	
1977-006B		9802	USSR	02 FEB	06 FEB 77	
1977-007B		9808	US	06 FEB	25 FEB 77	
1977-008A	SOYUZ 24	9804	USSR	07 FEB	12 FEB 77	
1977-008B		9805	USSR	07 FEB	12 FEB 77	
1977-009A		9806	USSR	07 FEB	22 FEB 77	
1977-009B	COSMOS 892	9812	USSR	09 FEB	15 FEB 77	
1977-009C		9813	USSR	09 FEB	10 FEB 77	
1977-009D		9814	USSR	09 FEB	26 FEB 77	
1977-009E		9845	USSR	09 FEB	24 FEB 77	
1977-009F		9847	USSR	09 FEB	23 FEB 77	
1977-009G		9849	USSR	09 FEB	23 FEB 77	
1977-010B		9851	USSR	09 FEB	23 FEB 77	
1977-010C		9830	USSR	11 FEB	02 MAR 77	
1977-010D		9831	USSR	11 FEB	02 MAR 77	
1977-011A	COSMOS 893	9832	USSR	11 FEB	27 FEB 77	
1977-011B		9833	USSR	15 FEB	06 OCT 84	
1977-011C		9834	USSR	15 FEB	05 NOV 77	
1977-012B		10486	USSR	15 FEB	18 MAR 78	
1977-012D		9842	JAPAN	19 FEB	21 MAR 79	
1977-014B		9844	JAPAN	19 FEB	15 MAY 78	
1977-015A	COSMOS 895	9859	USSR	23 FEB	14 NOV 91	
1977-016A	COSMOS 896	9853	USSR	26 FEB	22 MAR 92	
		9857	USSR	03 MAR	16 MAR 77	

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INTER- NATIONAL DESIGNATION		NAME	DECAYED OBJECTS		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977-016B					9858	USSR	03 MAR	04 MAR 77	
1977-016C					9865	USSR	03 MAR	25 MAR 77	
1977-016D					9869	USSR	03 MAR	17 MAR 77	
1977-016E					9870	USSR	03 MAR	17 MAR 77	
1977-016F					9873	USSR	03 MAR	24 MAR 77	
1977-016G					9874	USSR	03 MAR	23 MAR 77	
1977-016H					9875	USSR	03 MAR	21 MAR 77	
1977-017A		COSMOS 897			9860	USSR	10 MAR	23 MAR 77	
1977-017B					9861	USSR	10 MAR	15 MAR 77	
1977-017C					9876	USSR	10 MAR	31 MAR 77	
1977-017D					9877	USSR	10 MAR	27 MAR 77	
1977-017E					9878	USSR	10 MAR	26 MAR 77	
1977-017F					9879	USSR	10 MAR	20 MAY 77	
1977-017G					9885	USSR	10 MAR	27 MAR 77	
1977-018B					9884	US	10 MAR	25 APR 82	
1977-018C					9866	US	10 MAR	17 DEC 77	
1977-018D					9867	US	10 MAR	13 OCT 77	
1977-018E					9868	US	10 MAR	15 FEB 78	
1977-019A					9863	US	13 MAR	26 MAY 77	
1977-019B					10012	US	13 MAR	21 MAY 77	
1977-020A		COSMOS 898			9871	USSR	17 MAR	30 MAR 77	
1977-020B					9872	USSR	17 MAR	22 MAR 77	
1977-020C					9886	USSR	17 MAR	30 MAR 77	
1977-020D					9887	USSR	17 MAR	03 APR 77	
1977-021B					9881	USSR	24 MAR	19 APR 77	
1977-021C					9882	USSR	24 MAR	12 APR 77	
1977-022A		COSMOS 899			9883	USSR	24 MAR	19 OCT 80	
1977-022B					9884	USSR	24 MAR	25 DEC 80	
1977-022C					9900	USSR	29 MAR	11 OCT 79	
1977-023A		COSMOS 900			9898	USSR	29 MAR	06 SEP 79	
1977-023B					9899	USSR	05 APR	28 JUN 78	
1977-025A		COSMOS 901			9905	USSR	05 APR	25 MAR 78	
1977-025B					9906	USSR	07 APR	20 APR 77	
1977-026A		COSMOS 902			9908	USSR	07 APR	09 APR 77	
1977-026B					9909	USSR	07 APR	10 APR 77	
1977-026C					9910	USSR	07 APR	20 APR 77	
1977-026D					9928	USSR	07 APR	23 APR 77	
1977-026E					9929	USSR	11 APR	06 JUN 77	
1977-027B					9912	USSR	11 APR	01 MAY 77	
1977-027C					9913	USSR	20 APR	04 MAY 77	
1977-028A		COSMOS 904			9930	USSR	20 APR	29 APR 77	
1977-028B					9935	USSR	20 APR	23 APR 77	
1977-028C					9936	USSR	20 APR	17 DEC 89	
1977-029B					9932	US	20 APR	20 APR 77	
1977-029C					9933	US	20 APR	26 MAY 77	
1977-029D					9934	US	26 APR	01 MAY 77	
1977-030A		COSMOS 905			9937	USSR	26 APR	14 MAY 77	
1977-030B					9939	USSR	26 APR	26 MAY 77	
1977-030C					9940	USSR	27 APR	23 MAR 80	
1977-030D					10023	USSR	27 APR	15 MAY 77	
1977-031A		COSMOS 906			9938	USSR	28 APR		
1977-032B					9942	USSR	28 APR		



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977-032C		9943	USSR	28 APR	15 MAY 77	
1977-033A	COSMOS 907	9944	USSR	05 MAY	16 MAY 77	
1977-033B		9945	USSR	05 MAY	13 MAY 77	
1977-033C		9946	USSR	05 MAY	06 MAY 77	
1977-033D		9947	USSR	05 MAY	06 MAY 77	
1977-033E		10004	USSR	05 MAY	17 MAY 77	
1977-033F		10005	USSR	05 MAY	20 MAY 77	
1977-033G		10006	USSR	05 MAY	24 MAY 77	
1977-034D		10003	US	12 MAY	14 MAY 77	
1977-035A	COSMOS 908	10007	USSR	17 MAY	31 MAY 77	
1977-035B		10008	USSR	17 MAY	21 MAY 77	
1977-035C		10009	USSR	17 MAY	22 MAY 77	
1977-035D		10027	USSR	17 MAY	03 JUN 77	
1977-037A	COSMOS 910	10014	USSR	23 MAY	23 MAY 77	
1977-037B		10015	USSR	23 MAY	27 MAY 77	
1977-037C		10018	USSR	23 MAY	24 MAY 77	
1977-040A	COSMOS 912	10021	USSR	26 MAY	08 JUN 77	
1977-040B		10022	USSR	26 MAY	31 MAY 77	
1977-040C		10026	USSR	26 MAY	27 MAY 77	
1977-040D		10035	USSR	26 MAY	12 JUN 77	
1977-040E		10036	USSR	26 MAY	27 MAY 77	
1977-042A	COSMOS 913	10028	USSR	30 MAY	29 DEC 79	
1977-042B		10029	USSR	30 MAY	02 NOV 79	
1977-042C		10237	USSR	30 MAY	18 APR 78	
1977-042D		10238	USSR	30 MAY	18 FEB 78	
1977-042E		10329	USSR	30 MAY	26 FEB 78	
1977-042F		10330	USSR	30 MAY	23 FEB 78	
1977-042G		10331	USSR	30 MAY	23 FEB 78	
1977-042H		10332	USSR	30 MAY	18 APR 78	
1977-042J		10333	USSR	30 MAY	11 MAR 78	
1977-042K		10334	USSR	30 MAY	15 FEB 78	
1977-042L		10335	USSR	30 MAY	15 FEB 78	
1977-042M		10336	USSR	30 MAY	04 FEB 78	
1977-042N		10337	USSR	30 MAY	23 FEB 78	
1977-042P		10349	USSR	30 MAY	18 APR 78	
1977-042Q		10350	USSR	30 MAY	15 MAR 78	
1977-042R		10418	USSR	30 MAY	18 JUN 78	
1977-042S		10487	USSR	30 MAY	22 MAR 78	
1977-042T		10488	USSR	30 MAY	18 APR 78	
1977-042U		10494	USSR	30 MAY	18 MAR 78	
1977-042V		10495	USSR	30 MAY	18 MAR 78	
1977-042W		10496	USSR	30 MAY	18 APR 78	
1977-042X		10497	USSR	30 MAY	27 MAR 78	
1977-043A	COSMOS 914	10030	USSR	31 MAY	13 JUN 77	
1977-043B		10031	USSR	31 MAY	11 JUN 77	
1977-043C		10032	USSR	31 MAY	16 JUN 77	
1977-043D		10045	USSR	31 MAY	18 JUN 77	
1977-043E		10046	USSR	31 MAY	02 JUL 77	
1977-045A	COSMOS 915	10038	USSR	08 JUN	21 JUN 77	
1977-045B		10039	USSR	08 JUN	11 JUN 77	
1977-045C		10073	USSR	08 JUN	25 JUN 77	
1977-045D		10074	USSR	08 JUN	23 JUN 77	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977-045E			10084	USSR	08 JUN	23 JUN 77	
1977-046A	COSMOS 916		10040	USSR	10 JUN	21 JUN 77	
1977-046B			10041	USSR	10 JUN	01 JUL 77	
1977-046C			10042	USSR	10 JUN	29 JUN 77	
1977-046D			10043	USSR	10 JUN	18 JUN 77	
1977-046E			10044	USSR	10 JUN	25 JUN 77	
1977-046F			10088	USSR	10 JUN	27 JUN 77	
1977-046G			10090	USSR	10 JUN	01 JUL 77	
1977-047B			10060	USSR	16 JUN	17 AUG 77	
1977-047C			10066	USSR	16 JUN	14 JUL 77	
1977-048C			10063	US	16 JUN	12 JUL 77	
1977-048D			10067	US	16 JUN	29 JUN 77	
1977-048E			10075	US	16 JUN	11 JUL 77	
1977-049A	SIGNE 3		10064	FRANCE	17 JUN	20 JUN 79	
1977-049B			10069	USSR	17 JUN	05 FEB 80	
1977-050A	COSMOS 918		10065	USSR	17 JUN	18 JUN 77	
1977-050B			10068	USSR	17 JUN	18 JUN 77	
1977-051A	COSMOS 919		10070	USSR	18 JUN	28 AUG 78	
1977-051B			10071	USSR	18 JUN	21 APR 78	
1977-051C			10072	USSR	18 JUN	15 JUL 77	
1977-051D			10072	USSR	18 JUN	15 JUL 77	
1977-052A	COSMOS 920		10086	USSR	18 JUN	18 JUL 78	
1977-052B			10087	USSR	22 JUN	05 JUL 77	
1977-052C			10127	USSR	22 JUN	27 JUN 77	
1977-052D			10128	USSR	22 JUN	10 JUL 77	
1977-052E			10133	USSR	22 JUN	08 JUL 77	
1977-054A	MOLNIYA 1-37		10092	USSR	24 JUN	20 MAY 93	
1977-054B			10093	USSR	24 JUN	24 AUG 77	
1977-054C			10094	USSR	24 JUN	04 AUG 77	
1977-054E			21962	USSR	24 JUN	19 JUN 92	
1977-056A			10111	US	27 JUN	23 DEC 77	
1977-056B			10112	US	27 JUN	29 JUN 77	
1977-057A	METEOR		10113	USSR	29 JUN	28 AUG 93	
1977-057C			10116	USSR	29 JUN	02 AUG 77	
1977-058A	COSMOS 922		10115	USSR	30 JUN	13 JUL 77	
1977-058B			10117	USSR	30 JUN	08 JUL 77	
1977-058C			10118	USSR	30 JUN	02 JUL 77	
1977-058D			10119	USSR	30 JUN	02 JUL 77	
1977-060A	COSMOS 924		10129	USSR	04 JUL	10 FEB 81	
1977-060B			10130	USSR	04 JUL	20 JAN 81	
1977-060C			10131	USSR	04 JUL	12 JAN 78	
1977-060D			10132	USSR	04 JUL	03 DEC 77	
1977-061A	COSMOS 925		10134	USSR	07 JUL	29 APR 93	
1977-063A	COSMOS 927		10139	USSR	12 JUL	25 JUL 77	
1977-063B			10140	USSR	12 JUL	18 JUL 77	
1977-063C			10162	USSR	12 JUL	27 JUL 77	
1977-063D			10163	USSR	12 JUL	26 JUL 77	
1977-065C			10145	US	14 JUL	31 MAR 78	
1977-065D			10156	US	14 JUL	06 NOV 81	
1977-065E			10176	US	14 JUL	22 MAY 79	
1977-065H			10179	US	14 JUL	25 FEB 91	
1977-065J			10180	US	14 JUL	23 OCT 90	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977-065L		10182	US	14 JUL	01 JAN 81	
1977-065P		10185	US	14 JUL	23 JUN 85	
1977-065Q		10186	US	14 JUL	25 JAN 92	
1977-065R		10187	US	14 JUL	27 OCT 78	
1977-065T		10189	US	14 JUL	16 FEB 79	
1977-065U		10190	US	14 JUL	24 APR 89	
1977-065V		10191	US	14 JUL	04 DEC 78	
1977-065W		10192	US	14 JUL	17 AUG 83	
1977-065X		10193	US	14 JUL	17 APR 79	
1977-065Y		10194	US	14 JUL	22 SEP 85	
1977-065Z		10196	US	14 JUL	10 NOV 82	
1977-065AA		10197	US	14 JUL	18 JUL 81	
1977-065AC		10199	US	14 JUL	30 NOV 80	
1977-065AD		10200	US	14 JUL	15 MAY 81	
1977-065AG		10203	US	14 JUL	01 JAN 86	
1977-065AJ		10205	US	14 JUL	09 AUG 81	
1977-065AN		10209	US	14 JUL	26 SEP 82	
1977-065AP		10210	US	14 JUL	17 NOV 81	
1977-065AS		10213	US	14 JUL	13 APR 81	
1977-065AU		10215	US	14 JUL	13 APR 81	
1977-065AV		10216	US	14 JUL	05 JUN 82	
1977-065AZ		10222	US	14 JUL	24 DEC 78	
1977-065BB		10224	US	14 JUL	20 OCT 81	
1977-065BC		10225	US	14 JUL	09 OCT 80	
1977-065BF		10228	US	14 JUL	11 MAR 81	
1977-065BJ		10231	US	14 JUL	20 JUL 82	
1977-065BK		10232	US	14 JUL	21 JAN 91	
1977-065BL		10233	US	14 JUL	28 AUG 90	
1977-065BP		10236	US	14 JUL	27 AUG 80	
1977-065BQ		10239	US	14 JUL	27 APR 84	
1977-065BT		10242	US	14 JUL	29 APR 81	
1977-065BV		10244	US	14 JUL	22 SEP 91	
1977-065BW		10245	US	14 JUL	04 NOV 77	
1977-065BY		10247	US	14 JUL	09 AUG 79	
1977-065BZ		10248	US	14 JUL	14 FEB 79	
1977-065CA		10249	US	14 JUL	24 OCT 89	
1977-065CE		10253	US	14 JUL	20 FEB 78	
1977-065CF		10254	US	14 JUL	04 JUN 81	
1977-065CG		10255	US	14 JUL	04 JAN 90	
1977-065CH		10256	US	14 JUL	05 FEB 82	
1977-065CK		10258	US	14 JUL	04 SEP 92	
1977-065CL		10259	US	14 JUL	07 DEC 82	
1977-065CM		10260	US	14 JUL	11 APR 83	
1977-065CQ		10263	US	14 JUL	01 MAY 81	
1977-065CR		10264	US	14 JUL	14 MAR 89	
1977-065CS		10265	US	14 JUL	22 JUN 80	
1977-065CT		10266	US	14 JUL	06 AUG 85	
1977-065CU		10267	US	14 JUL	21 JAN 82	
1977-065CV		10268	US	14 JUL	13 AUG 79	
1977-065CX		10270	US	14 JUL	11 SEP 89	
1977-065CY		10302	US	14 JUL	16 APR 89	
1977-065CZ		10303	US	14 JUL	15 JUN 90	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977-065DA		10304	US	14 JUL	08 NOV 82	
1977-065DD		10307	US	14 JUL	06 JUN 81	
1977-065DE		10308	US	14 JUL	16 JUN 79	
1977-065DG		10310	US	14 JUL	11 JUL 80	
1977-065DH		10311	US	14 JUL	26 MAR 89	
1977-065DK		10313	US	14 JUL	31 MAY 93	
1977-065DP		10340	US	14 JUL	12 NOV 83	
1977-065DR		10342	US	14 JUL	26 JAN 83	
1977-065DS		10343	US	14 JUL	14 OCT 78	
1977-065DT		10344	US	14 JUL	02 JUL 79	
1977-065DW		10347	US	14 JUL	06 JUL 81	
1977-065DX		10348	US	14 JUL	07 AUG 92	
1977-065DZ		10390	US	14 JUL	06 DEC 81	
1977-065EA		10468	US	14 JUL	15 SEP 80	
1977-065EE		10472	US	14 JUL	16 MAR 81	
1977-065EF		10473	US	14 JUL	07 JAN 82	
1977-065EG		10474	US	14 JUL	12 JUN 78	
1977-065EH		10475	US	14 JUL	10 NOV 81	
1977-065EI		10477	US	14 JUL	10 DEC 81	
1977-065EK		10480	US	14 JUL	18 JUN 92	
1977-065EP		10481	US	14 JUL	03 FEB 87	
1977-065ER		10482	US	14 JUL	10 NOV 82	
1977-065EQ		10483	US	14 JUL	20 AUG 81	
1977-065ER		10624	US	14 JUL	27 JUN 80	
1977-065ET		10625	US	14 JUL	30 JUL 82	
1977-065EU		10628	US	14 JUL	21 MAR 90	
1977-065EX		10631	US	14 JUL	08 OCT 80	
1977-065FA		10632	US	14 JUL	03 FEB 89	
1977-065FB		10633	US	14 JUL	03 JAN 90	
1977-065FC		10635	US	14 JUL	30 SEP 80	
1977-065FE		10636	US	14 JUL	20 MAY 83	
1977-065FF		14494	US	14 JUL	09 JUL 88	
1977-065FK		14495	US	14 JUL	10 JUN 89	
1977-065FL		18643	US	14 JUL	27 NOV 88	
1977-065FU		19965	US	14 JUL	20 OCT 90	
1977-065GC		10146	USSR	17 JUL	02 FEB 78	
1977-066A	COSMOS 929	10147	USSR	17 JUL	29 JUL 77	
1977-066B		10148	USSR	17 JUL	24 JUL 77	
1977-066C		10149	USSR	19 JUL	12 MAY 80	
1977-067A	COSMOS 930	10151	USSR	20 JUL	22 SEP 77	
1977-068B		10152	USSR	20 JUL	17 AUG 77	
1977-068C		18528	USSR	20 JUL	02 JAN 89	
1977-068H		19881	USSR	20 JUL	01 MAR 93	
1977-068J		10153	USSR	20 JUL	02 AUG 77	
1977-069A	COSMOS 932	10154	USSR	20 JUL	24 JUL 77	
1977-069B		10170	USSR	20 JUL	03 AUG 77	
1977-069C		10171	USSR	20 JUL	03 AUG 77	
1977-069D		10157	USSR	22 JUL	01 NOV 78	
1977-070A	COSMOS 933	10158	USSR	22 JUL	07 JUN 78	
1977-070B		10160	USSR	23 JUL	26 JUL 77	
1977-071B		10161	USSR	23 JUL	26 JUL 77	
1977-071C		10276	USSR	23 JUL	05 JUN 78	
1977-071D						

# DECAVED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977-071E						
1977-072A	COSMOS 934	10277	USSR	23 JUL	25 MAR 78	
1977-072B		10164	USSR	27 JUL	09 AUG 77	
1977-072C		10165	USSR	27 JUL	05 AUG 77	
1977-072D		10166	USSR	27 JUL	02 AUG 77	
1977-072E		10174	USSR	27 JUL	17 AUG 77	
1977-072F		10175	USSR	27 JUL	10 AUG 77	
1977-073A	COSMOS 935	10195	USSR	27 JUL	12 AUG 77	
1977-073B		10168	USSR	29 JUL	11 AUG 77	
1977-074A		10169	USSR	29 JUL	03 AUG 77	
1977-074B	COSMOS 936	10172	USSR	03 AUG	22 AUG 77	
1977-074C		10173	USSR	03 AUG	28 AUG 77	
1977-074D		10274	USSR	03 AUG	05 SEP 77	
1977-075A	HEAD 1	10275	USSR	03 AUG	08 OCT 77	
1977-075B		10217	US	12 AUG	15 MAR 79	
1977-077A		10218	US	12 AUG	25 NOV 77	
1977-077B	COSMOS 937	10279	USSR	24 AUG	19 OCT 78	
1977-077C		10280	USSR	24 AUG	25 AUG 77	
1977-078A	COSMOS 938	10281	USSR	24 AUG	06 SEP 77	
1977-078B		10283	USSR	24 AUG	30 AUG 77	
1977-078C		10284	USSR	24 AUG	11 SEP 77	
1977-078D		10285	USSR	24 AUG	21 SEP 77	
1977-078E		10324	USSR	24 AUG	07 SEP 77	
1977-078F		10325	USSR	24 AUG	06 SEP 77	
1977-080C		10296	US	25 AUG	10 NOV 82	
1977-080D		10297	US	25 AUG	18 JAN 78	
1977-080E		10298	US	25 AUG	07 DEC 77	
1977-081A	COSMOS 947	10299	USSR	27 AUG	09 SEP 77	
1977-081B		10300	USSR	27 AUG	07 SEP 77	
1977-081C		10301	USSR	27 AUG	07 SEP 77	
1977-082A	MOLNIYA 1-38	10315	USSR	30 AUG	28 SEP 93	
1977-082B		10316	USSR	30 AUG	26 SEP 77	
1977-082C		10317	USSR	30 AUG	23 SEP 77	
1977-082D		10318	USSR	30 AUG	23 SEP 77	
1977-083A	COSMOS 948	10319	USSR	02 SEP	15 SEP 77	
1977-083B		10320	USSR	02 SEP	07 SEP 77	
1977-083C		10356	USSR	02 SEP	20 SEP 77	
1977-083D		10357	USSR	02 SEP	15 SEP 77	
1977-085A	COSMOS 949	10326	USSR	06 SEP	06 OCT 77	
1977-085B		10327	USSR	06 SEP	11 SEP 77	
1977-085C		10328	USSR	06 SEP	10 SEP 77	
1977-086A	COSMOS 950	10351	USSR	13 SEP	27 SEP 77	
1977-086B		10353	USSR	13 SEP	18 SEP 77	
1977-086C		10354	USSR	13 SEP	20 SEP 77	
1977-088B		10399	USSR	16 SEP	07 NOV 77	
1977-088C		10400	USSR	16 SEP	11 OCT 77	
1977-089A	COSMOS 953	10359	USSR	16 SEP	29 SEP 77	
1977-089B		10360	USSR	16 SEP	21 SEP 77	
1977-089C		10380	USSR	16 SEP	30 SEP 77	
1977-089D		10381	USSR	16 SEP	29 SEP 77	
1977-090A	COSMOS 954	10361	USSR	18 SEP	24 JAN 78	
1977-091C		10364	USSR	20 SEP	03 JUN 82	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977-092B		10366	USSR	20 SEP	21 SEP 77	
1977-092C		10367	USSR	20 SEP	21 SEP 77	
1977-092D		10368	USSR	20 SEP	25 SEP 77	
1977-092E		10408	USSR	20 SEP	30 APR 78	
1977-092F		10484	USSR	20 SEP	18 JUN 78	
1977-093B		10371	USSR	22 SEP	29 OCT 77	
1977-093C		10372	USSR	22 SEP	23 OCT 77	
1977-093D		10373	USSR	22 SEP	28 SEP 77	
1977-094A		10374	US	23 SEP	08 DEC 77	
1977-095A	COSMOS 956	10375	USSR	24 SEP	27 JUN 82	
1977-095B		10378	USSR	24 SEP	01 NOV 82	
1977-096A	INTERCOSMOS 17	10376	USSR	24 SEP	08 NOV 79	
1977-096B		10377	USSR	24 SEP	11 SEP 79	
1977-096C		10379	USSR	24 SEP	08 APR 78	
1977-097A		10382	USSR	29 SEP	29 JUL 82	
1977-097B		10383	USSR	29 SEP	05 OCT 77	
1977-097C		10384	USSR	29 SEP	03 OCT 77	
1977-097D		10533	USSR	29 SEP	22 FEB 78	
1977-097E		10545	USSR	29 SEP	24 APR 78	
1977-097F		10547	USSR	29 SEP	12 MAY 78	
1977-097G		10548	USSR	29 SEP	25 MAR 78	
1977-097H		10553	USSR	29 SEP	27 MAY 78	
1977-097I		10596	USSR	29 SEP	14 MAY 78	
1977-097J		10597	USSR	29 SEP	21 MAR 78	
1977-097K		10598	USSR	29 SEP	08 FEB 78	
1977-097L		10685	USSR	29 SEP	06 MAR 78	
1977-097M		10686	USSR	29 SEP	06 MAR 78	
1977-097P		10687	USSR	29 SEP	06 MAR 78	
1977-097Q		10738	USSR	29 SEP	26 APR 78	
1977-097R		10740	USSR	29 SEP	15 JUN 78	
1977-097S		10743	USSR	29 SEP	17 JUN 78	
1977-097T		10781	USSR	29 SEP	29 MAY 78	
1977-097U		11032	USSR	29 SEP	21 OCT 78	
1977-097V		11033	USSR	29 SEP	14 OCT 78	
1977-097W		11034	USSR	29 SEP	03 DEC 78	
1977-097X		11035	USSR	29 SEP	26 NOV 78	
1977-097Y		11036	USSR	29 SEP	06 MAY 79	
1977-097Z		11091	USSR	29 SEP	14 APR 79	
1977-097AA		11092	USSR	19 SEP	12 DEC 78	
1977-097AB		11093	USSR	19 SEP	26 NOV 78	
1977-097AC		11094	USSR	29 SEP	28 JAN 79	
1977-097AD		11095	USSR	19 SEP	15 DEC 78	
1977-097AE		11096	USSR	29 SEP	30 JUL 79	
1977-097AF		11097	USSR	19 SEP	19 DEC 78	
1977-097AG		11100	USSR	19 SEP	16 FEB 79	
1977-097AH		11338	USSR	29 SEP	22 JUN 79	
1977-097AJ		11339	USSR	29 SEP	25 MAY 79	
1977-097AK		11340	USSR	29 SEP	03 MAY 79	
1977-097AL		11341	USSR	29 SEP	09 JUL 79	
1977-097AM		11342	USSR	29 SEP	25 MAY 79	
1977-097AN		11350	USSR	29 SEP	17 JUL 79	
1977-097AP		11431	USSR	29 SEP	04 SEP 79	

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# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DEATH	NOTES
1977-097AQ		11432	USSR	29 SEP	05 OCT 79	
1977-097AR		11433	USSR	29 SEP	16 JUL 79	
1977-097AS		11434	USSR	29 SEP	27 NOV 79	
1977-097AT		11435	USSR	29 SEP	25 AUG 79	
1977-097AU		11467	USSR	29 SEP	23 OCT 79	
1977-097AV		11468	USSR	29 SEP	17 OCT 79	
1977-097AW		11469	USSR	29 SEP	17 OCT 79	
1977-097AX		11470	USSR	29 SEP	23 OCT 79	
1977-097AY		11471	USSR	29 SEP	15 OCT 79	
1977-097AZ		11472	USSR	29 SEP	16 MAR 80	
1977-097BA		11473	USSR	29 SEP	26 OCT 79	
1977-097BB		11480	USSR	29 SEP	15 OCT 79	
1977-097BC		11489	USSR	29 SEP	15 OCT 79	
1977-097BD		11493	USSR	29 SEP	26 AUG 79	
1977-097BE		11494	USSR	29 SEP	31 DEC 79	
1977-097BF		11495	USSR	29 SEP	11 DEC 79	
1977-097BG		11500	USSR	29 SEP	21 DEC 79	
1977-097BH		11501	USSR	29 SEP	28 DEC 79	
1977-097BU		11502	USSR	29 SEP	11 SEP 79	
1977-097BK		11503	USSR	29 SEP	21 DEC 79	
1977-097BL		11504	USSR	29 SEP	22 MAR 80	
1977-097BM		11508	USSR	29 SEP	20 OCT 79	
1977-097BN		11523	USSR	29 SEP	19 JAN 80	
1977-097BP		11563	USSR	29 SEP	09 NOV 79	
1977-097BQ		11572	USSR	29 SEP	27 OCT 79	
1977-097BR		11740	USSR	29 SEP	28 MAY 80	
1977-097BS		11832	USSR	29 SEP	05 SEP 80	
1977-097BT		11893	USSR	29 SEP	04 SEP 80	
1977-097BU		11930	USSR	29 JUL	15 OCT 80	
1977-097BV		11931	USSR	29 SEP	21 OCT 80	
1977-097BW		11934	USSR	29 SEP	08 SEP 80	
1977-097BX		11935	USSR	29 SEP	15 OCT 80	
1977-097BY		11936	USSR	29 SEP	14 SEP 80	
1977-097BZ		11937	USSR	29 SEP	16 OCT 80	
1977-097CA		11942	USSR	29 SEP	14 SEP 80	
1977-097CB		11947	USSR	29 SEP	16 OCT 80	
1977-097CC		11955	USSR	29 SEP	01 OCT 80	
1977-097CD		11956	USSR	29 SEP	27 OCT 80	
1977-097CE		11957	USSR	29 SEP	21 OCT 80	
1977-097CF		11958	USSR	29 SEP	24 SEP 80	
1977-097CG		11966	USSR	29 SEP	23 NOV 80	
1977-097CH		11967	USSR	29 SEP	06 OCT 80	
1977-097CJ		11972	USSR	29 SEP	03 NOV 80	
1977-097CK		11973	USSR	29 SEP	15 OCT 80	
1977-097CL		11974	USSR	29 SEP	13 NOV 80	
1977-097CM		11975	USSR	29 SEP	13 OCT 80	
1977-097CN		12090	USSR	29 SEP	26 JAN 81	
1977-097CP		12390	USSR	29 SEP	08 MAY 81	
1977-097CQ		12391	USSR	29 SEP	22 JUN 81	
1977-097CR		12392	USSR	29 SEP	29 APR 81	
1977-097CS		12393	USSR	29 SEP	25 APR 81	
1977-097CT		12394	USSR	29 SEP	05 MAY 81	

INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1977-097CU			12395		USSR	29 SEP	08 MAY 81	
1977-097CV			12398		USSR	29 SEP	27 JUN 81	
1977-097CW			12436		USSR	29 SEP	27 JUL 81	
1977-097CX			12437		USSR	29 SEP	06 JUL 81	
1977-097CY			12438		USSR	29 SEP	12 JUN 81	
1977-097CZ			12439		USSR	29 SEP	06 JUL 81	
1977-097DA			12440		USSR	29 SEP	11 JUN 81	
1977-097DB			12441		USSR	29 SEP	24 MAY 81	
1977-097DC			12444		USSR	29 SEP	10 JUL 81	
1977-097DD			12476		USSR	29 SEP	22 JUL 81	
1977-097DE			12477		USSR	29 SEP	14 SEP 81	
1977-097DF			12478		USSR	29 SEP	21 JUL 81	
1977-097DG			12479		USSR	29 SEP	19 JUL 81	
1977-097DH			12488		USSR	29 SEP	09 SEP 81	
1977-097DJ			12489		USSR	29 SEP	07 OCT 81	
1977-097DK			12493		USSR	29 SEP	09 SEP 81	
1977-098A		COSMOS 957	10385		USSR	30 SEP	13 OCT 77	
1977-098B			10386		USSR	30 SEP	05 OCT 77	
1977-098C			10387		USSR	30 SEP	13 OCT 77	
1977-098D			10388		USSR	30 SEP	13 OCT 77	
1977-098E			10406		USSR	30 SEP	15 OCT 77	
1977-098F			10407		USSR	30 SEP	13 OCT 77	
1977-099A	SOYUZ 25		10401		USSR	09 OCT	11 OCT 77	
1977-099B			10402		USSR	09 OCT	11 OCT 77	
1977-100A			10403		USSR	11 OCT	24 OCT 77	
1977-100B		COSMOS 958	10404		USSR	11 OCT	09 NOV 77	
1977-100C			10405		USSR	11 OCT	31 OCT 77	
1977-100D			10426		USSR	11 OCT	05 MAR 78	
1977-100E			10427		USSR	11 OCT	15 SEP 78	
1977-100F			10428		USSR	11 OCT	18 JUN 78	
1977-100G			10429		USSR	11 OCT	16 JAN 78	
1977-101A		COSMOS 959	10419		USSR	21 OCT	08 NOV 77	
1977-101B			10420		USSR	21 OCT	05 NOV 77	
1977-101C			10421		USSR	22 OCT	26 SEP 87	
1977-102A	ISEE 1		10422		US	22 OCT	26 SEP 87	
1977-102B	ISEE 2		10423		ESA	22 OCT	26 SEP 87	
1977-102C			10424		US	22 OCT	23 OCT 78	
1977-103A		COSMOS 960	10430		USSR	25 OCT	22 OCT 80	
1977-103B			10431		USSR	25 OCT	30 NOV 80	
1977-103C			10432		USSR	25 OCT	24 JUN 78	
1977-104A		COSMOS 961	10434		USSR	26 OCT	26 OCT 77	
1977-104B			10435		USSR	26 OCT	27 OCT 77	
1977-105B			10456		USSR	28 OCT	18 NOV 77	
1977-105C			10458		USSR	28 OCT	26 NOV 77	
1977-105D			10460		USSR	28 OCT	20 NOV 77	
1977-108C			10950		US	23 NOV	12 AUG 90	
1977-110A		COSMOS 964	10498		USSR	04 DEC	17 DEC 77	
1977-110B			10499		USSR	04 DEC	09 DEC 77	
1977-110C			10500		USSR	04 DEC	06 JAN 78	
1977-110D			10522		USSR	04 DEC	20 DEC 77	
1977-110E			10523		USSR	04 DEC	20 DEC 77	
1977-111A		COSMOS 965	10501		USSR	08 DEC	16 DEC 79	

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INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
NAME									
1977-111B		10503	USSR	08 DEC	14 NOV 79				
1977-111C		10505	USSR	08 DEC	15 APR 78		B0*		
1977-111D		10682	USSR	08 DEC	17 APR 78				
1977-111E		10683	USSR	08 DEC	01 MAY 78				
1977-111F		10741	USSR	08 DEC	15 MAY 78				
1977-111G		10742	USSR	08 DEC	18 JUL 78				
1977-111H		10780	USSR	08 DEC	24 MAY 78				
1977-111J		10782	USSR	08 DEC	18 JUL 78				
1977-111K		10789	USSR	08 DEC	06 JUN 78				
1977-111L		10795	USSR	08 DEC	01 JUN 78				
1977-111M		10797	USSR	08 DEC	18 JUL 78				
1977-111N		10807	USSR	08 DEC	23 MAY 78				
1977-111P		10809	USSR	08 DEC	20 JUN 78				
1977-111Q		10814	USSR	08 DEC	18 JUN 78				
1977-111R		10815	USSR	08 DEC	08 JUL 79				
1977-111S		10816	USSR	08 DEC	06 JUL 78				
1977-111T		10817	USSR	08 DEC	20 JUN 78				
1977-111U		10858	USSR	08 DEC	30 JUL 78				
1977-111V		10859	USSR	08 DEC	26 JUL 78				
1977-111W		10891	USSR	08 DEC	19 JUL 78				
1977-111X		10892	USSR	08 DEC	25 JUL 78				
1977-111Y		10908	USSR	08 DEC	04 AUG 78				
1977-111Z		10909	USSR	08 DEC	04 DEC 78				
1977-111AA		10910	USSR	08 DEC	04 DEC 78				
1977-111AB		10923	USSR	08 DEC	24 AUG 78				
1977-111AC		10924	USSR	08 DEC	17 AUG 78				
1977-113A	SOYUZ 26	10506	USSR	10 DEC	16 JAN 78				
1977-113B		10507	USSR	10 DEC	12 DEC 77		E*		
1977-115A	COSMOS 966	10510	USSR	12 DEC	24 DEC 77				
1977-115B		10511	USSR	12 DEC	18 DEC 77				
1977-115C		10534	USSR	12 DEC	29 DEC 77				
1977-115D		10538	USSR	12 DEC	07 JAN 78				
1977-118D		11072	US	15 DEC	09 OCT 81				
1977-120A	COSMOS 969	10527	USSR	20 DEC	03 JAN 78				
1977-120B		10530	USSR	20 DEC	26 DEC 77				
1977-120C		10549	USSR	20 DEC	05 JAN 78				
1977-120D		10550	USSR	20 DEC	04 JAN 78				
1977-120E		10551	USSR	20 DEC	05 MAR 78				
1977-120F		10552	USSR	20 DEC	05 MAR 78				
1977-121B		10532	USSR	21 DEC	25 DEC 77				
1977-121BN		17731	USSR	21 DEC	15 OCT 91				
1977-121BT		19393	USSR	21 DEC	15 SEP 91				
1977-121BU		19514	USSR	21 DEC	02 FEB 89				
1977-123C		10546	USSR	27 DEC	31 DEC 77				
1977-124A	COSMOS 973	10540	USSR	27 DEC	09 JAN 78				
1977-124B		10542	USSR	27 DEC	05 JAN 78				
1977-124C		10543	USSR	27 DEC	31 DEC 77				
1977-124D		10558	USSR	27 DEC	25 JAN 78				
1977-124E		10559	USSR	27 DEC	11 JAN 78				
9778 LAUNCHES									

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978-001A	COSMOS 974	10554	USSR	06 JAN	19 JAN 78		
1978-001B		10555	USSR	06 JAN	11 JAN 78		
1978-001C		10556	USSR	06 JAN	25 JAN 78		
1978-001D		10601	USSR	06 JAN	26 JAN 78		
1978-001E		10602	USSR	06 JAN	21 JAN 78		
1978-003A	SOYUZ 27	10560	USSR	10 JAN	16 MAR 78		E+
1978-003B		10583	USSR	10 JAN	13 JAN 78		
1978-006A	COSMOS 984	10592	USSR	13 JAN	26 JAN 78		
1978-006B		10593	USSR	13 JAN	22 JAN 78		
1978-008A	PROGRESS 1	10603	USSR	20 JAN	08 FEB 78		
1978-008B		10604	USSR	20 JAN	23 JAN 78		
1978-009A	MOLNIYA 3-9	10605	USSR	24 JAN	24 APR 90		
1978-009B		10606	USSR	24 JAN	12 MAR 78		
1978-009C		10608	USSR	24 JAN	03 MAR 78		
1978-009D		10610	USSR	24 JAN	08 MAR 78		
1978-009E		10802	USSR	24 JAN	09 AUG 90		
1978-010A	COSMOS 986	10607	USSR	24 JAN	07 FEB 78		
1978-010B		10609	USSR	24 JAN	28 JAN 78		
1978-011A	MAO 8	10611	PRC	26 JAN	07 FEB 78		
1978-011B		10612	PRC	26 JAN	06 FEB 78		
1978-012B		10638	US	26 JAN	21 FEB 78		
1978-013A	COSMOS 987	10639	USSR	31 JAN	14 FEB 78		
1978-013B		10640	USSR	31 JAN	04 FEB 78		
1978-013C		10641	USSR	31 JAN	05 FEB 78		
1978-013D		10670	USSR	31 JAN	17 FEB 78		
1978-013E		10671	USSR	31 JAN	20 FEB 78		
1978-014B		10665	JAPAN	04 FEB	12 FEB 79		
1978-014G		18816	JAPAN	04 FEB	10 NOV 88		
1978-014H		22008	JAPAN	04 FEB	02 AUG 92		
1978-015A	COSMOS 988	10666	USSR	08 FEB	20 FEB 78		
1978-015B		10667	USSR	08 FEB	17 FEB 78		
1978-015C		10668	USSR	08 FEB	05 MAR 78		
1978-015D		10678	USSR	08 FEB	22 FEB 78		
1978-015E		10679	USSR	08 FEB	02 MAR 78		
1978-015F		10680	USSR	08 FEB	11 MAR 78		
1978-015G		10681	USSR	08 FEB	24 FEB 78		
1978-016B		10724	US	09 FEB	31 AUG 82		
1978-016D	COSMOS 989	13998	US	09 FEB	21 JUN 89		
1978-017A		10672	USSR	14 FEB	28 FEB 78		
1978-017B		10673	USSR	14 FEB	17 FEB 78		
1978-017C		10690	USSR	14 FEB	01 MAR 78		
1978-017D		10691	USSR	14 FEB	28 FEB 78		
1978-023A	SOYUZ 28	10694	USSR	02 MAR	10 MAR 78		
1978-023B		10695	USSR	02 MAR	05 MAR 78		
1978-024A	MOLNIYA 1-39	10696	USSR	02 MAR	09 MAR 92		
1978-024B		10697	USSR	02 MAR	10 APR 78		
1978-024C		10698	USSR	02 MAR	09 APR 78		
1978-024D		10803	USSR	02 MAR	11 DEC 92		
1978-025A	COSMOS 992	10699	USSR	04 MAR	17 MAR 78		
1978-025B		10700	USSR	04 MAR	10 MAR 78		
1978-025C		10701	USSR	04 MAR	05 MAR 78		
1978-026X		12182	US	05 MAR	28 OCT 89		

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978-026AC		12187	US	05 MAR	12 FEB 88	
1978-026AD		12188	US	05 MAR	13 MAR 93	
1978-026AG		12191	US	05 MAR	28 FEB 89	
1978-026AH		12192	US	05 MAR	22 MAR 89	
1978-026AN		12197	US	05 MAR	05 FEB 82	
1978-026AQ		12199	US	05 MAR	20 FEB 90	
1978-026AT		12202	US	05 MAR	12 NOV 83	
1978-026AW		12205	US	05 MAR	21 JUL 89	
1978-026AY		12207	US	05 MAR	16 JUL 84	
1978-026BB		12210	US	05 MAR	11 FEB 90	
1978-026BL		12219	US	05 MAR	10 AUG 89	
1978-026BM		12220	US	05 MAR	13 MAR 91	
1978-026BR		12224	US	05 MAR	31 DEC 92	
1978-026BV		12228	US	05 MAR	05 OCT 90	
1978-026BW		12229	US	05 MAR	05 MAY 81	
1978-026BY		12231	US	05 MAR	19 MAR 93	
1978-026CA		12233	US	05 MAR	12 FEB 88	
1978-026CC		12235	US	05 MAR	08 FEB 89	
1978-026CF		12238	US	05 MAR	15 FEB 82	
1978-026CG		12239	US	05 MAR	05 FEB 82	
1978-026CH		12240	US	05 MAR	16 APR 84	
1978-026CJ		12241	US	05 MAR	11 APR 82	
1978-026CM		12244	US	05 MAR	18 JUN 89	
1978-026CN		12245	US	05 MAR	15 JUL 89	
1978-026CQ		12247	US	05 MAR	02 JUN 88	
1978-026CR		12248	US	05 MAR	17 AUG 81	
1978-026CS		12249	US	05 MAR	16 APR 89	
1978-026CU		12251	US	05 MAR	18 FEB 81	
1978-026CV		12252	US	05 MAR	02 JAN 82	
1978-026CW		12253	US	05 MAR	13 DEC 81	
1978-026CX		12254	US	05 MAR	20 MAR 89	
1978-026CY		12255	US	05 MAR	01 JUL 81	
1978-026DB		12258	US	05 MAR	01 JUL 81	
1978-026DC		12259	US	05 MAR	15 MAR 89	
1978-026DD		12260	US	05 MAR	29 MAY 91	
1978-026DE		12261	US	05 MAR	27 SEP 91	
1978-026DH		12264	US	05 MAR	10 DEC 81	
1978-026DM		12268	US	05 MAR	18 JUL 93	
1978-026DQ		12271	US	05 MAR	18 NOV 81	
1978-026DR		12272	US	05 MAR	07 AUG 89	
1978-026DU		12275	US	05 MAR	27 DEC 81	
1978-026DV		12276	US	05 MAR	20 APR 87	
1978-026DW		12277	US	05 MAR	17 AUG 89	
1978-026EA		12281	US	05 MAR	07 NOV 82	
1978-026EB		12282	US	05 MAR	29 APR 82	
1978-026EF		12286	US	05 MAR	14 OCT 81	
1978-026EJ		12289	US	05 MAR	10 NOV 91	
1978-026ES		12374	US	05 MAR	27 DEC 89	
1978-026FF		13568	US	05 MAR	17 NOV 90	
1978-026FT		1457	US	05 MAR	06 MAR 83	
1978-026FX		1457	US	05 MAR	26 DEC 91	
1978-026GC		14462	US	05 MAR	05 MAY 88	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978-026GY		17766	US	05 MAR	06 SEP 91	
1978-026GZ		17767	US	05 MAR	12 AUG 89	
1978-026HC		18301	US	05 MAR	02 OCT 88	
1978-026HG		18679	US	05 MAR	22 MAR 91	
1978-026HK		18814	US	05 MAR	11 NOV 89	
1978-026HL		19237	US	05 MAR	15 JUL 89	
1978-026HQ		19967	US	05 MAR	26 NOV 93	
1978-027A	COSMOS 993	10725	USSR	10 MAR	23 MAR 78	
1978-027B		10726	USSR	10 MAR	14 MAR 78	
1978-027C		10727	USSR	10 MAR	12 MAR 78	
1978-027D		10739	USSR	10 MAR	24 MAR 78	
1978-029A		10733	US	16 MAR	11 SEP 78	
1978-029C		10737	US	16 MAR	17 MAR 78	
1978-030A	COSMOS 995	10735	USSR	17 MAR	30 MAR 78	
1978-030B		10736	USSR	17 MAR	20 MAR 78	
1978-032A	COSMOS 997	10770	USSR	30 MAR	30 MAR 78	
1978-032B	COSMOS 998	10771	USSR	30 MAR	30 MAR 78	
1978-032C		10772	USSR	30 MAR	02 APR 78	
1978-032D		10775	USSR	30 MAR	03 APR 78	
1978-033A	COSMOS 999	10773	USSR	30 MAR	12 APR 78	
1978-033B		10774	USSR	30 MAR	03 APR 78	
1978-033C		10798	USSR	30 MAR	13 APR 78	
1978-033D		10799	USSR	30 MAR	16 APR 78	
1978-036A	COSMOS 1001	10800	USSR	30 MAR	24 APR 78	
1978-036B		10783	USSR	04 APR	15 APR 78	
1978-036C		10804	USSR	04 APR	06 APR 78	
1978-036D		10805	USSR	04 APR	01 JUN 78	
1978-036E		10806	USSR	04 APR	02 MAY 78	
1978-036F		10810	USSR	04 APR	25 APR 78	
1978-037A	COSMOS 1002	10785	USSR	06 APR	23 MAY 78	
1978-037B		10786	USSR	06 APR	19 APR 78	
1978-037C		10790	USSR	06 APR	10 APR 78	
1978-037D		10791	USSR	06 APR	24 APR 78	
1978-040A	COSMOS 1003	10811	USSR	20 APR	04 MAY 78	
1978-040B		10812	USSR	20 APR	23 APR 78	
1978-040C		10813	USSR	20 APR	22 APR 78	
1978-040D		10821	USSR	20 APR	04 MAY 78	
1978-040E		10822	USSR	20 APR	04 MAY 78	
1978-041A	HCMM	10818	US	26 APR	22 DEC 81	
1978-041B		10819	US	26 APR	22 DEC 81	
1978-042B		10853	US	01 MAY	24 NOV 80	
1978-042C		10854	US	01 MAY	06 MAR 92	
1978-042D		10913	US	01 MAY	01 MAY 86	
1978-042E		10914	US	01 MAY	16 JUN 89	
1978-043A	COSMOS 1004	10846	USSR	05 MAY	18 MAY 78	
1978-043B		10847	USSR	05 MAY	09 MAY 78	
1978-043C		10848	USSR	05 MAY	09 MAY 78	
1978-043D		10849	USSR	05 MAY	09 MAY 78	
1978-043E		10850	USSR	05 MAY	14 MAY 78	
1978-043F		10851	USSR	05 MAY	08 JUN 78	
1978-043G		10852	USSR	05 MAY	16 JUN 78	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978-046A	COSMOS 1006	10862	USSR	12 MAY	14 MAR 79	
1978-046B		10863	USSR	12 MAY	06 DEC 78	
1978-048A	COSMOS 1007	10895	USSR	16 MAY	29 MAY 78	
1978-048B		10896	USSR	16 MAY	20 MAY 78	
1978-048C		10897	USSR	16 MAY	18 MAY 78	
1978-048D		10921	USSR	16 MAY	31 MAY 78	
1978-048E		10922	USSR	16 MAY	03 JUL 78	
1978-049A	COSMOS 1008	10898	USSR	17 MAY	08 JAN 81	
1978-049B		10899	USSR	17 MAY	06 FEB 81	
1978-049C		10900	USSR	17 MAY	17 DEC 78	
1978-049D		10901	USSR	17 MAY	30 DEC 78	
1978-049E		10902	USSR	17 MAY	17 JUL 78	
1978-049F		10903	USSR	17 MAY	12 SEP 78	
1978-050A	COSMOS 1009	10904	USSR	19 MAY	19 MAY 78	
1978-050B		10905	USSR	19 MAY	05 JUN 78	
1978-050C		10906	USSR	19 MAY	18 JUL 78	
1978-050D		10907	USSR	19 MAY	23 MAY 78	
1978-052A	COSMOS 1010	10915	USSR	23 MAY	05 JUN 78	
1978-052B		10916	USSR	23 MAY	26 MAY 78	
1978-052C		10928	USSR	23 MAY	07 JUN 78	
1978-054A	COSMOS 1012	10919	USSR	25 MAY	07 JUN 78	
1978-054B		10920	USSR	25 MAY	28 MAY 78	
1978-055B		10926	USSR	02 JUN	21 JUN 78	
1978-055C		10927	USSR	02 JUN	17 JUN 78	
1978-055D		10929	USSR	02 JUN	25 JUN 78	
1978-057A	COSMOS 1021	10939	USSR	10 JUN	23 JUN 78	
1978-057B		10940	USSR	10 JUN	25 JUN 78	
1978-057C		10963	USSR	10 JUN	13 JUN 78	
1978-057D		10964	USSR	10 JUN	26 JUN 78	
1978-058C		10943	US	10 JUN	14 JUN 78	
1978-059A	COSMOS 1022	10944	USSR	12 JUN	25 JUN 78	
1978-059B		10945	USSR	12 JUN	16 JUN 78	
1978-059C		10965	USSR	12 JUN	28 JUN 78	
1978-059D		10966	USSR	12 JUN	28 JUN 78	
1978-060A		10947	US	14 JUN	23 AUG 81	
1978-060B		10948	US	14 JUN	24 JUL 78	
1978-060C		10951	US	14 JUN	18 JUN 78	
1978-060D		10957	US	14 JUN	18 JUN 78	
1978-060E		10958	US	14 JUN	18 JUN 78	
1978-060F		10959	US	14 JUN	18 JUN 78	
1978-061A	SOYUZ 29	10952	USSR	15 JUN	03 SEP 78	
1978-061B		10956	USSR	15 JUN	18 JUN 78	
1978-062C		10955	US	16 JUN	20 AUG 83	
1978-064B		14244	US	27 JUN	30 OCT 86	
1978-064C		18617	US	27 JUN	25 MAR 88	
1978-064D		18649	US	27 JUN	01 MAR 88	
1978-064E		18996	US	27 JUN	10 AUG 88	
1978-064F		19103	US	27 JUN	11 JUN 88	
1978-065A	SOYUZ 30	10968	USSR	27 JUN	05 JUL 78	E*
1978-065B		10969	USSR	27 JUN	30 JUN 78	
1978-066B		10971	USSR	28 JUN	31 JUL 78	
1978-066C		10972	USSR	28 JUN	12 JUL 78	

INTER - NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978-069A		COSMOS 1026	10977	USSR	02 JUL	06 JUL 78	
1978-069B			10978	USSR	02 JUL	07 JUL 78	
1978-070A		PROGRESS 2	10979	USSR	07 JUL	04 AUG 78	
1978-070B			10980	USSR	07 JUL	10 JUL 78	
1978-071B			10982	US	14 JUL	11 DEC 78	
1978-072A		MOLNIYA 1-41	10984	USSR	14 JUL	08 FEB 92	
1978-072B			10985	USSR	14 JUL	30 AUG 78	
1978-072C			10986	USSR	14 JUL	23 AUG 78	
1978-073B			11073	USSR	14 JUL	17 MAR 92	
1978-073C			10988	USSR	18 JUL	20 JUL 78	
1978-076A		COSMOS 1028	10989	USSR	18 JUL	19 JUL 78	
1978-076B			10995	USSR	05 AUG	04 SEP 78	
1978-076C			10996	USSR	05 AUG	07 AUG 78	
1978-076D			10997	USSR	05 AUG	08 AUG 78	
1978-077A		PROGRESS 3	11014	USSR	05 AUG	04 SEP 78	
1978-077B			10999	USSR	07 AUG	23 AUG 78	
1978-078A		PIONEER VENUS	11000	USSR	07 AUG	09 AUG 78	
1978-078B			11001	US	08 AUG	09 DEC 78	
1978-078D		PIONEER PROBE	11002	US	08 AUG	08 AUG 78	
1978-078E		PIONEER PROBE	12103	US	08 AUG	09 DEC 79	
1978-078F		PIONEER PROBE	12104	US	08 AUG	09 DEC 79	
1978-078G		PIONEER PROBE	12105	US	08 AUG	09 DEC 79	
1978-079B			12106	US	08 AUG	09 DEC 79	
1978-080B			11005	US	12 AUG	23 OCT 78	
1978-080C			11008	USSR	22 AUG	15 SEP 78	
1978-081A	SOYUZ 31		11009	USSR	22 AUG	06 SEP 78	
1978-081B			11010	USSR	26 AUG	02 NOV 78	
1978-082A	COSMOS 1029		11011	USSR	26 AUG	28 AUG 78	
1978-082B			11012	USSR	29 AUG	08 SEP 78	
1978-082C			11013	USSR	29 AUG	03 SEP 78	
1978-082D			11018	USSR	29 AUG	11 SEP 78	
1978-083B			11019	USSR	29 AUG	10 SEP 78	
1978-083C			11016	USSR	06 SEP	08 OCT 78	
1978-084B			11017	USSR	06 SEP	21 SEP 78	
1978-084C			11077	USSR	09 SEP	10 SEP 78	
1978-084D			11021	USSR	09 SEP	10 SEP 78	
1978-085A	VENERA 11		12027	USSR	09 SEP	25 DEC 78	
1978-085B	COSMOS 1031		11022	USSR	09 SEP	22 SEP 78	
1978-085C			11023	USSR	09 SEP	14 SEP 78	
1978-085D			11024	USSR	09 SEP	17 APR 79	
1978-086B			11031	USSR	09 SEP	24 SEP 78	
1978-086C	VENERA 12		11026	USSR	14 SEP	15 SEP 78	
1978-088A	COSMOS 1032		12028	USSR	14 SEP	21 DEC 78	
1978-088B			11029	USSR	19 SEP	02 OCT 78	
1978-088C			11030	USSR	19 SEP	22 SEP 78	
1978-089A			11037	USSR	19 SEP	02 OCT 78	
1978-089B	COSMOS 1033		11038	USSR	19 SEP	03 OCT 78	
1978-089C			11039	USSR	03 OCT	16 OCT 78	
1978-090A	PROGRESS 4		11041	USSR	03 OCT	06 OCT 78	
1978-090B			11043	USSR	03 OCT	17 OCT 78	
					03 OCT	26 OCT 78	
					03 OCT	05 OCT 78	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978-092A	COSMOS 1042	11052	USSR	06 OCT	19 OCT 78	
1978-092B		11053	USSR	06 OCT	10 OCT 78	
1978-092C		11070	USSR	06 OCT	21 OCT 78	
1978-092D		11071	USSR	06 OCT	21 OCT 78	
1978-093B		11078	US	07 OCT	25 DEC 91	
1978-094C	COSMOS 1044	22536	USSR	10 OCT	11 MAR 93	
1978-095B		11058	USSR	13 OCT	28 OCT 78	
1978-095C		11059	USSR	13 OCT	20 OCT 78	
1978-095D		11064	USSR	13 OCT	31 OCT 78	
1978-096D		18532	US	13 OCT	20 OCT 88	
1978-096E	COSMOS 1046	18786	US	13 OCT	25 FEB 89	
1978-097A		11065	USSR	17 OCT	30 OCT 78	
1978-097B		11066	USSR	17 OCT	22 OCT 78	
1978-097C		11067	USSR	17 OCT	21 OCT 78	
1978-097D		11068	USSR	17 OCT	21 OCT 78	
1978-097E	INTERCOSMOS 18	11069	USSR	17 OCT	21 OCT 78	
1978-098C		18605	US	24 OCT	20 OCT 88	
1978-099A		11082	USSR	24 OCT	17 MAR 81	
1978-099B		11083	USSR	24 OCT	13 MAY 81	
1978-099C		11110	CZECH	24 OCT	11 SEP 81	
1978-100E	MAGION	11177	USSR	26 OCT	02 FEB 89	
1978-100AF		19352	USSR	26 OCT	29 MAR 92	
1978-100AG		19364	USSR	26 OCT	26 JUN 92	
1978-100AJ		19578	USSR	26 OCT	23 MAY 93	
1978-101A		11088	USSR	30 OCT	22 OCT 80	
1978-101B	PROGN02 7	11090	USSR	30 OCT	25 NOV 78	
1978-101C		11089	USSR	30 OCT	17 NOV 78	
1978-102A		11098	USSR	01 NOV	13 NOV 78	
1978-102B		11099	USSR	01 NOV	07 NOV 78	
1978-102C		11103	USSR	01 NOV	14 NOV 78	
1978-102D	COSMOS 1046	11104	USSR	01 NOV	15 NOV 78	
1978-102E		11105	USSR	01 NOV	14 NOV 78	
1978-102F		11106	USSR	01 NOV	14 NOV 78	
1978-102G		11107	USSR	01 NOV	14 NOV 78	
1978-103A		11101	US	13 NOV	25 MAR 82	
1978-103B	HEAD 2	11102	US	13 NOV	13 MAR 79	
1978-104A		11108	USSR	15 NOV	28 NOV 78	
1978-104B		11109	USSR	15 NOV	19 NOV 78	
1978-104C		11120	USSR	15 NOV	02 DEC 78	
1978-106B		11116	US	19 NOV	12 DEC 78	
1978-106C	COSMOS 1049	11117	US	19 NOV	28 NOV 82	
1978-107A		11118	USSR	21 NOV	04 DEC 78	
1978-107B		11119	USSR	21 NOV	26 NOV 78	
1978-107C		11125	USSR	21 NOV	10 DEC 78	
1978-107D		11126	USSR	21 NOV	08 DEC 78	
1978-107E	COSMOS 1050	11127	USSR	21 NOV	11 DEC 78	
1978-108A		11121	USSR	28 NOV	12 DEC 78	
1978-108B		11122	USSR	28 NOV	08 DEC 78	
1978-108C		11123	USSR	28 NOV	02 JAN 79	
1978-108D		11124	USSR	28 NOV	02 JAN 79	
1978-108E	COSMOS 1059	11143	USSR	28 NOV	15 DEC 78	
1978-110A		11137	USSR	07 DEC	20 DEC 78	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978-110B			11138	USSR	07 DEC	11 DEC 78	
1978-110C			11157	USSR	07 DEC	23 DEC 78	
1978-110D			11160	USSR	07 DEC	23 DEC 78	
1978-111A	COSMOS 1060		11139	USSR	08 DEC	21 DEC 78	
1978-111B			11140	USSR	08 DEC	13 DEC 78	
1978-113C			11146	US	14 DEC	14 DEC 78	
1978-114A	COSMOS 1061		11148	USSR	14 DEC	27 DEC 78	
1978-114B			11149	USSR	14 DEC	20 DEC 78	
1978-114C			11167	USSR	14 DEC	04 JAN 79	
1978-115A	COSMOS 1062		11150	USSR	15 DEC	20 APR 81	
1978-115B			11151	USSR	15 DEC	20 JUN 81	
1978-115C			11152	USSR	15 DEC	07 MAR 79	
1978-116B			11154	US	16 DEC	23 APR 79	
1978-118B			11159	USSR	19 DEC	21 DEC 78	
1978-119A	COSMOS 1064		11161	USSR	20 DEC	12 NOV 89	
1978-119B			11162	USSR	20 DEC	15 NOV 88	
1978-120A	COSMOS 1065		11163	USSR	22 DEC	01 AUG 79	
1978-120B			11164	USSR	22 DEC	18 AUG 79	
1978-120C			11243	USSR	22 DEC	01 MAR 79	
1978-120D			11244	USSR	22 DEC	02 MAR 79	
1978-120E			11248	USSR	22 DEC	03 MAR 79	
1978-120F			11249	USSR	22 DEC	01 MAR 79	
1978-120G			11424	USSR	22 DEC	16 JUL 79	
1978-120H			11426	USSR	22 DEC	05 AUG 79	
1978-123A	COSMOS 1068		11169	USSR	26 DEC	08 JAN 79	
1978-123B			11171	USSR	26 DEC	31 DEC 78	
1978-123C			11172	USSR	26 DEC	01 JAN 79	
1978-123D			11226	USSR	26 DEC	09 JAN 79	
1978-123E			11227	USSR	26 DEC	09 JAN 79	
1978-124A	COSMOS 1069		11173	USSR	28 DEC	10 JAN 79	
1978-124B			11174	USSR	28 DEC	05 JAN 79	
1978-124C			11175	USSR	28 DEC	31 DEC 78	
1978-124D			11176	USSR	28 DEC	16 JAN 79	
1978-124E			11228	USSR	28 DEC	11 JAN 79	
1978-124F			11237	USSR	28 DEC	22 JAN 79	
1979 LAUNCHES							
1979-001A	COSMOS 1070		11229	USSR	11 JAN	20 JAN 79	
1979-001B			11230	USSR	11 JAN	16 JAN 79	
1979-001C			11231	USSR	11 JAN	18 JAN 79	
1979-001D			11232	USSR	11 JAN	19 JAN 79	
1979-001E			11234	USSR	11 JAN	22 JAN 79	
1979-001F			11245	USSR	11 JAN	27 JAN 79	
1979-001G			11246	USSR	11 JAN	21 JAN 79	
1979-001H			11247	USSR	11 JAN	20 JAN 79	
1979-002A	COSMOS 1071		11233	USSR	13 JAN	26 JAN 79	
1979-002B			11235	USSR	13 JAN	17 JAN 79	
1979-002C			11236	USSR	13 JAN	18 JAN 79	
1979-002D			11250	USSR	13 JAN	27 JAN 79	
1979-002E			11253	USSR	13 JAN	27 JAN 79	
1979-002F			11254	USSR	13 JAN	29 JAN 79	



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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-004B	COSMOS 1073	11241	USSR	18 JAN	31 JAN 79	
1979-004C		11242	USSR	18 JAN	29 JAN 79	
1979-005C		18529	USSR	25 JAN	25 AUG 88	
1979-006A		11255	USSR	30 JAN	12 FEB 79	
1979-006B		11257	USSR	30 JAN	03 FEB 79	
1979-006C	COSMOS 1074	11264	USSR	30 JAN	14 FEB 79	
1979-006D		11265	USSR	30 JAN	13 FEB 79	
1979-007B		11258	US	30 JAN	25 FEB 79	
1979-008A		11259	USSR	31 MAR	01 APR 79	
1979-008B		11260	USSR	31 JAN	02 FEB 79	
1979-008C	COSMOS 1075	11315	USSR	31 JAN	10 AUG 79	
1979-008D		11316	USSR	31 JAN	06 JUN 79	
1979-008E		11317	USSR	31 JAN	06 AUG 79	
1979-008F		11318	USSR	31 JAN	30 MAY 79	
1979-008G		11319	USSR	31 JAN	22 JUN 79	
1979-010A	SAGE	11262	USSR	08 FEB	19 OCT 81	
1979-010B		11263	USSR	08 FEB	29 AUG 80	
1979-013A		11270	US	18 FEB	11 APR 89	
1979-013B		11271	US	18 FEB	19 SEP 81	
1979-013C		11272	US	18 FEB	14 AUG 82	
1979-014A	CDRSA B	11274	JAPAN	21 FEB	15 APR 85	
1979-014B		11280	JAPAN	21 FEB	08 FEB 82	
1979-015B		11275	USSR	21 FEB	22 FEB 79	
1979-015C		11276	USSR	22 FEB	02 MAR 79	
1979-016A		11277	USSR	22 FEB	24 FEB 79	
1979-016B	COSMOS 1078	11287	USSR	22 FEB	02 MAR 79	
1979-016C		11278	US	24 FEB	20 JUL 92	
1979-017A		11279	US	24 FEB	11 OCT 83	
1979-017B		11291	US	24 FEB	29 JUL 79	
1979-017C		11322	US	24 FEB	27 FEB 82	
1979-017D	SOLWIND	16027	US	24 FEB	02 JAN 86	
1979-017E		16028	US	24 FEB	03 APR 88	
1979-017F		16029	US	24 FEB	11 NOV 89	
1979-017G		16030	US	24 FEB	23 MAR 89	
1979-017H		16031	US	24 FEB	01 JAN 86	
1979-017J	COSMOS 1079	16032	US	24 FEB	16 AUG 87	
1979-017K		16033	US	24 FEB	04 APR 88	
1979-017L		16034	US	24 FEB	27 JUN 86	
1979-017M		16035	US	24 FEB	31 OCT 88	
1979-017N		16036	US	24 FEB	12 MAY 90	
1979-017P	COSMOS 1080	16037	US	24 FEB	08 OCT 85	
1979-017Q		16038	US	24 FEB	27 DEC 88	
1979-017R		16039	US	24 FEB	09 AUG 88	
1979-017S		16040	US	24 FEB	23 FEB 87	
1979-017T		16041	US	24 FEB	20 AUG 89	
1979-017U	COSMOS 1081	16042	US	24 FEB	29 JUL 88	
1979-017V		16043	US	24 FEB	18 DEC 85	
1979-017W		16044	US	24 FEB	20 MAY 89	
1979-017X		16045	US	24 FEB	23 MAY 89	
1979-017Y		16071	US	24 FEB	22 JUL 87	
1979-017Z	COSMOS 1082	16072	US	24 FEB	07 SEP 88	
1979-017AA						

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-017AB		16073	US	24 FEB	01 MAY 89	
1979-017AC		16074	US	24 FEB	12 JAN 89	
1979-017AD		16075	US	24 FEB	07 JUL 86	
1979-017AE		16076	US	24 FEB	02 DEC 86	
1979-017AF		16078	US	24 FEB	16 JUL 88	
1979-017AG		16079	US	24 FEB	08 APR 88	
1979-017AH		16080	US	24 FEB	24 SEP 88	
1979-017AJ		16081	US	24 FEB	30 NOV 88	
1979-017AK		16082	US	24 FEB	09 JUL 88	
1979-017AL		16083	US	24 FEB	27 FEB 91	
1979-017AP		16086	US	24 FEB	19 SEP 88	
1979-017AQ		16087	US	24 FEB	28 MAR 90	
1979-017AR		16130	US	24 FEB	10 OCT 85	
1979-017AS		16131	US	24 FEB	15 DEC 85	
1979-017AT		16132	US	24 FEB	24 OCT 85	
1979-017AU		16133	US	24 FEB	27 NOV 87	
1979-017AV		16147	US	24 FEB	07 JUN 87	
1979-017AW		16148	US	24 FEB	20 DEC 85	
1979-017AX		16149	US	24 FEB	19 APR 87	
1979-017AY		16150	US	24 FEB	13 OCT 87	
1979-017AZ		16151	US	24 FEB	10 MAY 88	
1979-017BA		16152	US	24 FEB	28 OCT 86	
1979-017BB		16153	US	24 FEB	21 JAN 86	
1979-017BC		16154	US	24 FEB	24 MAR 88	
1979-017BD		16155	US	24 FEB	19 JUN 88	
1979-017BE		16156	US	24 FEB	21 DEC 87	
1979-017BF		16157	US	24 FEB	27 JUN 88	
1979-017BG		16158	US	24 FEB	12 OCT 88	
1979-017BH		16278	US	24 FEB	13 NOV 88	
1979-017BJ		16279	US	24 FEB	15 APR 87	
1979-017BK		16280	US	24 FEB	10 MAR 89	
1979-017BL		16281	US	24 FEB	13 NOV 87	
1979-017BM		16282	US	24 FEB	28 JAN 88	
1979-017BN		16283	US	24 FEB	10 NOV 87	
1979-017BP		16284	US	24 FEB	25 MAY 88	
1979-017BQ		16298	US	24 FEB	15 FEB 86	
1979-017BR		16299	US	24 FEB	04 MAY 86	
1979-017BS		16300	US	24 FEB	12 JUL 88	
1979-017BT		16301	US	24 FEB	15 FEB 89	
1979-017BU		16302	US	24 FEB	23 APR 87	
1979-017BV		16303	US	24 FEB	04 FEB 89	
1979-017BW		16304	US	24 FEB	20 MAY 86	
1979-017BY		16309	US	24 FEB	27 DEC 89	
1979-017BZ		16310	US	24 FEB	25 AUG 89	
1979-017CB		16312	US	24 FEB	21 DEC 89	
1979-017CC		16313	US	24 FEB	24 AUG 89	
1979-017CD		16314	US	24 FEB	11 DEC 88	
1979-017CE		16315	US	24 FEB	03 OCT 86	
1979-017CF		16316	US	24 FEB	29 DEC 88	
1979-017CG		16317	US	24 FEB	13 MAR 89	
1979-017CH		16318	US	24 FEB	30 OCT 86	
1979-017CJ		16319	US	24 FEB	10 JUL 87	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-017CK		16320	US	24 FEB	24 APR 79	
1979-017CL		16321	US	24 FEB	13 APR 88	
1979-017CM		16322	US	24 FEB	17 DEC 87	
1979-017CN		16323	US	24 FEB	03 JAN 88	
1979-017CP		16324	US	24 FEB	14 MAR 87	
1979-017CQ		16325	US	24 FEB	21 NOV 86	
1979-017CR		16333	US	24 FEB	14 NOV 88	
1979-017CS		16334	US	24 FEB	06 JAN 87	
1979-017CT		16335	US	24 FEB	22 SEP 86	
1979-017CU		16336	US	24 FEB	19 JAN 89	
1979-017CV		16337	US	24 FEB	08 JUN 86	
1979-017CW		16338	US	24 FEB	03 MAR 86	
1979-017CX		16341	US	24 FEB	30 SEP 88	
1979-017CY		16342	US	24 FEB	25 MAR 86	
1979-017CZ		16343	US	24 FEB	10 SEP 91	
1979-017DA		16344	US	24 FEB	01 MAY 87	
1979-017DB		16345	US	24 FEB	08 JUL 87	
1979-017DC		16346	US	24 FEB	06 MAY 88	
1979-017DD		16347	US	24 FEB	06 APR 88	
1979-017DE		16348	US	24 FEB	23 NOV 88	
1979-017DF		16349	US	24 FEB	10 JUL 87	
1979-017DG		16350	US	24 FEB	26 JUL 86	
1979-017DH		16351	US	24 FEB	08 MAY 86	
1979-017DJ		16352	US	24 FEB	12 MAY 86	
1979-017DK		16360	US	24 FEB	10 OCT 87	
1979-017DL		16361	US	24 FEB	15 NOV 86	
1979-017DM		16362	US	24 FEB	25 JAN 86	
1979-017DN		16363	US	24 FEB	08 AUG 87	
1979-017DP		16364	US	24 FEB	03 OCT 88	
1979-017DQ		16365	US	24 FEB	20 MAR 86	
1979-017DR		16366	US	24 FEB	02 SEP 87	
1979-017DS		16367	US	24 FEB	12 OCT 87	
1979-017DT		16413	US	24 FEB	11 AUG 89	
1979-017DU		16414	US	24 FEB	14 OCT 88	
1979-017DV		16415	US	24 FEB	01 MAR 86	
1979-017DW		16416	US	24 FEB	11 DEC 87	
1979-017DX		16417	US	24 FEB	30 MAY 87	
1979-017DY		16418	US	24 FEB	23 JAN 89	
1979-017DZ		16419	US	24 FEB	01 JAN 86	
1979-017EA		16420	US	24 FEB	02 SEP 86	
1979-017EB		16421	US	24 FEB	26 AUG 86	
1979-017EC		16422	US	24 FEB	08 AUG 87	
1979-017ED		16423	US	24 FEB	19 JUN 86	
1979-017EE		16424	US	24 FEB	17 APR 86	
1979-017EF		16425	US	24 FEB	27 SEP 86	
1979-017EG		16458	US	24 FEB	12 JUN 88	
1979-017EH		16459	US	24 FEB	17 OCT 86	
1979-017EJ		16460	US	24 FEB	19 MAY 89	
1979-017EK		16461	US	24 FEB	21 APR 86	
1979-017EL		16462	US	24 FEB	28 JAN 86	
1979-017EM		16463	US	24 FEB	06 MAR 86	
1979-017EN		16464	US	24 FEB	22 JAN 86	

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INTER - NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-017EP		16465	US	24 FEB	06 MAR 86	
1979-017EQ		16466	US	24 FEB	28 OCT 88	
1979-017ER		16467	US	24 FEB	30 JAN 89	
1979-017ES		16468	US	24 FEB	02 JUL 88	
1979-017ET		16469	US	24 FEB	04 FEB 86	
1979-017EU		16470	US	24 FEB	29 OCT 88	
1979-017EV		16471	US	24 FEB	22 OCT 87	
1979-017EW		16472	US	24 FEB	02 AUG 89	
1979-017EX		16473	US	24 FEB	19 MAY 86	
1979-017EY		16474	US	24 FEB	09 JUL 88	
1979-017EZ		16475	US	24 FEB	14 OCT 87	
1979-017FA		16476	US	24 FEB	24 JAN 88	
1979-017FB		16477	US	24 FEB	29 APR 86	
1979-017FC		16478	US	24 FEB	06 NOV 89	
1979-017FD		16479	US	24 FEB	13 APR 86	
1979-017FH		16486	US	24 FEB	21 JAN 88	
1979-017FJ		16487	US	24 FEB	11 DEC 86	
1979-017FK		16488	US	24 FEB	01 FEB 89	
1979-017FL		16489	US	24 FEB	17 APR 89	
1979-017FM		16515	US	24 FEB	28 DEC 88	
1979-017FN		16516	US	24 FEB	25 AUG 87	
1979-017FP		16517	US	24 FEB	13 APR 86	
1979-017FQ		16518	US	24 FEB	12 OCT 88	
1979-017FR		16519	US	24 FEB	20 DEC 86	
1979-017FS		16520	US	24 FEB	16 MAR 88	
1979-017FT		16521	US	24 FEB	14 FEB 87	
1979-017FU		16522	US	24 FEB	21 OCT 87	
1979-017FV		16523	US	24 FEB	30 JAN 88	
1979-017FW		16524	US	24 FEB	16 OCT 86	
1979-017FX		16525	US	24 FEB	07 NOV 86	
1979-017FY		16534	US	24 FEB	20 FEB 89	
1979-017FZ		16535	US	24 FEB	13 MAR 87	
1979-017GA		16536	US	24 FEB	11 MAY 86	
1979-017GB		16537	US	24 FEB	29 JAN 88	
1979-017GC		16538	US	24 FEB	09 JAN 88	
1979-017GD		16539	US	24 FEB	11 APR 86	
1979-017GE		16542	US	24 FEB	25 OCT 86	
1979-017GF		16543	US	24 FEB	20 APR 87	
1979-017GG		16549	US	24 FEB	24 DEC 88	
1979-017GH		16550	US	24 FEB	02 JAN 90	
1979-017GK		16552	US	24 FEB	18 SEP 87	
1979-017GL		16553	US	24 FEB	24 FEB 88	
1979-017GM		16554	US	24 FEB	27 MAY 87	
1979-017GN		16555	US	24 FEB	29 JUL 87	
1979-017GP		16556	US	24 FEB	12 FEB 86	
1979-017GQ		16557	US	24 FEB	20 JUN 86	
1979-017GR		16558	US	24 FEB	10 MAY 87	
1979-017GS		16559	US	24 FEB	30 APR 86	
1979-017GT		16560	US	24 FEB	24 FEB 87	
1979-017GU		16561	US	24 FEB	16 JAN 88	
1979-017GV		16562	US	24 FEB	25 JUN 86	
1979-017GW		16563	US	24 FEB	26 AUG 86	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-017GY		16565	US	24 FEB	11 MAY 88	
1979-017GZ		16566	US	24 FEB	10 OCT 88	
1979-017HA		16567	US	24 FEB	22 NOV 89	
1979-017HB		16568	US	24 FEB	01 JUN 88	
1979-017HC		16569	US	24 FEB	15 NOV 87	
1979-017HD		16570	US	24 FEB	06 DEC 92	
1979-017HE		16571	US	24 FEB	28 APR 88	
1979-017HF		16572	US	24 FEB	15 JUL 88	
1979-017HG		16573	US	24 FEB	12 DEC 87	
1979-017HH		16574	US	24 FEB	20 OCT 88	
1979-017HJ		16575	US	24 FEB	17 JUL 87	
1979-017HK		16576	US	24 FEB	08 AUG 88	
1979-017HL		16577	US	24 FEB	05 NOV 86	
1979-017HM		16578	US	24 FEB	27 MAR 86	
1979-017HN		16579	US	24 FEB	27 MAR 86	
1979-017HP		16580	US	24 FEB	09 SEP 87	
1979-017HQ		16581	US	24 FEB	17 JAN 89	
1979-017HR		16582	US	24 FEB	15 JAN 89	
1979-017HS		16583	US	24 FEB	06 MAY 87	
1979-017HT		16584	US	24 FEB	09 SEP 88	
1979-017HU		16585	US	24 FEB	23 JUL 86	
1979-017HV		16586	US	24 FEB	10 FEB 86	
1979-017HW		16587	US	24 FEB	22 JAN 89	
1979-017HX		16588	US	24 FEB	01 JUL 88	
1979-017HY		16660	US	24 FEB	02 FEB 89	
1979-017HZ		16661	US	24 FEB	26 OCT 87	
1979-017JA		16662	US	24 FEB	30 OCT 86	
1979-017JB		16663	US	24 FEB	31 AUG 88	
1979-017JC		16726	US	24 FEB	20 NOV 88	
1979-017JD		16843	US	24 FEB	23 JUL 88	
1979-017JE		16877	US	24 FEB	04 MAR 88	
1979-017JG		16879	US	24 FEB	11 MAR 87	
1979-017JH		17095	US	24 FEB	13 NOV 88	
1979-017JL		17100	US	24 FEB	22 SEP 88	
1979-017JM		17101	US	24 FEB	28 MAR 89	
1979-017JN		17165	US	24 FEB	27 JAN 89	
1979-017JP		17166	US	24 FEB	18 OCT 87	
1979-017JQ		17167	US	24 FEB	03 DEC 87	
1979-017JR		17172	US	24 FEB	15 AUG 87	
1979-017JS		17173	US	24 FEB	06 MAY 87	
1979-017JT		17174	US	24 FEB	23 JUN 87	
1979-017JU		17770	US	24 FEB	26 FEB 89	
1979-017JUV		17771	US	24 FEB	13 JUL 88	
1979-017JW		17772	US	24 FEB	21 MAR 89	
1979-017JX		17773	US	24 FEB	27 JAN 88	
1979-017JY		17774	US	24 FEB	26 APR 89	
1979-017JZ		17775	US	24 FEB	06 AUG 88	
1979-017KA		17776	US	24 FEB	25 JUN 88	
1979-017KB		17777	US	24 FEB	16 DEC 88	
1979-017KC		17778	US	24 FEB	16 SEP 88	
1979-017KD		17779	US	24 FEB	05 JUN 87	
1979-017KD		17780	US	24 FEB	17 JUN 88	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-017KE		17781	US	24 FEB	10 NOV 91	
1979-017KF		17782	US	24 FEB	21 FEB 88	
1979-017KG		17783	US	24 FEB	26 AUG 88	
1979-017KH		17784	US	24 FEB	04 JUN 88	
1979-017KU		17822	US	24 FEB	29 APR 88	
1979-017KK		17823	US	24 FEB	12 NOV 88	
1979-017KL		17824	US	24 FEB	04 MAY 91	
1979-017KM		17825	US	24 FEB	22 OCT 91	
1979-017KN		17826	US	24 FEB	21 MAY 89	
1979-017KP		17827	US	24 FEB	07 OCT 88	
1979-017KQ		17828	US	24 FEB	15 AUG 87	
1979-017KR		17829	US	24 FEB	12 FEB 88	
1979-017KS		17830	US	24 FEB	19 SEP 88	
1979-017KT		17831	US	24 FEB	05 OCT 88	
1979-017KU		17832	US	24 FEB	13 FEB 89	
1979-017KV		18250	US	24 FEB	30 SEP 87	
1979-017KW		18251	US	24 FEB	11 SEP 87	
1979-017KX		18252	US	24 FEB	07 OCT 89	
1979-017KY		18253	US	24 FEB	29 NOV 87	
1979-017KZ		18254	US	24 FEB	28 OCT 87	
1979-017LA		18255	US	24 FEB	23 JUN 90	
1979-017LB		18303	US	24 FEB	30 JAN 88	
1979-017LC		18304	US	24 FEB	22 JUN 89	
1979-017LD		18423	US	24 FEB	26 MAR 89	
1979-017LE		18424	US	24 FEB	21 SEP 92	
1979-017LF		18425	US	24 FEB	01 DEC 88	
1979-017LG		18464	US	24 FEB	21 MAR 90	
1979-017LH		18486	US	24 FEB	30 OCT 89	
1979-017LJ		18487	US	24 FEB	28 JAN 89	
1979-017LK		18546	US	24 FEB	13 MAR 89	
1979-017LL		18604	US	24 FEB	21 APR 89	
1979-017LM		18612	US	24 FEB	05 AUG 89	
1979-017LN		18646	US	24 FEB	19 SEP 88	
1979-017LP		18695	US	24 FEB	14 JAN 88	
1979-017LQ		18776	US	24 FEB	06 APR 89	
1979-017LR		18818	US	24 FEB	10 NOV 88	
1979-017LS		18867	US	24 FEB	20 OCT 88	
1979-017LT		18871	US	24 FEB	14 FEB 90	
1979-017LU		18873	US	24 FEB	26 APR 89	
1979-017LV		18915	US	24 FEB	10 DEC 89	
1979-017LW		19060	US	24 FEB	12 MAR 89	
1979-017LX		19061	US	24 FEB	04 NOV 88	
1979-017LY		19156	US	24 FEB	17 MAR 89	
1979-017LZ		19350	US	24 FEB	07 APR 89	
1979-018A	SOYUZ 32	11281	USSR	25 FEB	13 JUN 79	
1979-018B		11282	USSR	25 FEB	27 FEB 79	
1979-019A	COSMOS 1079	11283	USSR	27 FEB	11 MAR 79	
1979-019B		11284	USSR	27 FEB	02 MAR 79	
1979-020C		11323	USSR	27 FEB	02 SEP 80	
1979-022A	PROGRESS 5	11292	USSR	12 MAR	05 APR 79	
1979-022B		11293	USSR	12 MAR	14 MAR 79	
1979-023A	COSMOS 1080	11294	USSR	14 MAR	28 MAR 79	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-023B		11295	USSR	14 MAR	16 MAR 79	
1979-023C		11310	USSR	14 MAR	27 MAR 79	
1979-023D		11311	USSR	14 MAR	27 MAR 79	
1979-023E		11312	USSR	14 MAR	28 MAR 79	
1979-025A		11305	US	16 MAR	22 SEP 79	
1979-025C		11307	US	16 MAR	18 MAR 79	
1979-027A		11313	USSR	31 MAR	13 APR 79	
1979-027B	COSMOS 1090	11314	USSR	31 MAR	05 APR 79	
1979-029A		11324	USSR	10 APR	12 APR 79	
1979-029B	SOYUZ 33	11325	USSR	10 APR	13 APR 79	
1979-031B		11329	USSR	12 APR	08 MAY 79	
1979-031C		11330	USSR	12 APR	05 MAY 79	
1979-033A		11333	USSR	18 APR	07 NOV 79	
1979-033B	COSMOS 1094	11334	USSR	18 APR	18 APR 79	
1979-033C		11337	USSR	18 APR	17 JUN 79	
1979-034A		11335	USSR	20 APR	04 MAY 79	
1979-034B	COSMOS 1095	11336	USSR	20 APR	27 APR 79	
1979-034C		11337	USSR	20 APR	01 MAY 79	
1979-034D		11351	USSR	20 APR	18 NOV 79	
1979-034E		11352	USSR	20 APR	21 JUN 79	
1979-034F		11354	USSR	20 APR	10 JUL 79	
1979-034G		11355	USSR	20 APR	01 JUN 79	
1979-035B		11344	USSR	25 APR	26 APR 79	
1979-035C		11345	USSR	25 APR	25 APR 79	
1979-035D		11552	USSR	25 APR	01 JAN 80	
1979-036A	COSMOS 1096	11347	USSR	25 APR	24 NOV 79	
1979-036B		11347	USSR	25 APR	25 APR 79	
1979-037A	COSMOS 1097	11348	USSR	27 APR	25 APR 79	
1979-037B		11349	USSR	27 APR	27 MAY 79	
1979-039A	PROGRESS 6	11356	USSR	13 MAY	30 APR 79	
1979-039B		11357	USSR	13 MAY	09 JUN 79	
1979-040A	COSMOS 1098	11358	USSR	15 MAY	15 MAY 79	
1979-040B		11359	USSR	15 MAY	28 MAY 79	
1979-040C		11370	USSR	15 MAY	19 MAY 79	
1979-041A	COSMOS 1099	11360	USSR	17 MAY	30 MAY 79	
1979-041B		11361	USSR	17 MAY	21 MAY 79	
1979-041C		11371	USSR	17 MAY	22 JUN 79	
1979-041D	/	11373	USSR	17 MAY	21 JUN 79	
1979-041E		11374	USSR	17 MAY	02 JUN 79	
1979-042A	COSMOS 1100	11362	USSR	22 MAY	23 MAY 79	
1979-042B		11363	USSR	22 MAY	23 MAY 79	
1979-042C	COSMOS 1101	11364	USSR	22 MAY	26 MAY 79	
1979-042D		11365	USSR	22 MAY	16 JUN 79	
1979-042E		11366	USSR	22 MAY	25 MAY 79	
1979-043A	COSMOS 1102	11368	USSR	25 MAY	07 JUN 79	
1979-043B		11369	USSR	25 MAY	29 MAY 79	
1979-043C		11375	USSR	25 MAY	06 JUN 79	
1979-043D		11390	USSR	25 MAY	13 JUL 79	
1979-043E		11391	USSR	25 MAY	03 JUN 79	
1979-044A		11372	US	28 MAY	26 AUG 79	
1979-045A	COSMOS 1103	11376	USSR	31 MAY	14 JUN 79	
1979-045B		11377	USSR	31 MAY	24 JUN 79	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-045C			11380	USSR	31 MAY	05 JUN 79	
1979-045D			11381	USSR	31 MAY	08 JUN 79	
1979-045E			11402	USSR	31 MAY	27 JUL 79	
1979-045F			11406	USSR	31 MAY	09 JUL 79	
1979-045G			11407	USSR	31 MAY	15 NOV 79	
1979-047A		UK 6	11382	UK	02 JUN	23 SEP 90	
1979-047B			11383	US	02 JUN	10 APR 88	
1979-048A		MDLNIYA 3-12	11384	USSR	05 JUN	26 SEP 92	
1979-048B			11385	USSR	05 JUN	24 JUN 79	
1979-048C			11386	USSR	05 JUN	21 JUN 79	
1979-048D			11554	USSR	05 JUN	05 AUG 90	
1979-049A		SOYUZ 34	11387	USSR	06 JUN	19 AUG 79	
1979-049B			11388	USSR	06 JUN	09 JUN 79	
1979-050E			11411	US	06 JUN	08 JUN 82	
1979-050F			11412	US	06 JUN	23 FEB 82	
1979-051A		BHASKARA	11392	INDIA	07 JUN	17 FEB 89	
1979-051B			11393	USSR	07 JUN	17 FEB 82	
1979-052A		COSMOS 1105	11394	USSR	08 JUN	21 JUN 79	
1979-052B			11395	USSR	08 JUN	12 JUN 79	
1979-052C			11396	USSR	08 JUN	08 JUN 79	
1979-052D			11409	USSR	08 JUN	28 JUL 79	
1979-053B			11398	US	10 JUN	11 JUN 79	
1979-054A		COSMOS 1106	11399	USSR	12 JUN	25 JUN 79	
1979-054B			11400	USSR	12 JUN	15 JUN 79	
1979-054C			11401	USSR	12 JUN	07 AUG 79	
1979-054D			11415	USSR	12 JUN	30 JUN 79	
1979-055A		COSMOS 1107	11415	USSR	15 JUN	29 JUN 79	
1979-055B			11404	USSR	15 JUN	20 JUN 79	
1979-055C			11405	USSR	15 JUN	02 JUL 79	
1979-055D			11420	USSR	15 JUN	03 JUL 79	
1979-055E			11428	USSR	22 JUN	05 JUL 79	
1979-056A		COSMOS 1108	11413	USSR	22 JUN	25 JUN 79	
1979-056B			11414	USSR	22 JUN	08 JUL 79	
1979-056C			11437	USSR	22 JUN	11 JUL 79	
1979-056D			11438	USSR	22 JUN	21 JUL 79	
1979-056E			11439	USSR	22 JUN	12 MAY 93	
1979-057D			22139	US	27 JUN	26 JUL 79	
1979-058B			11418	USSR	27 JUN	13 JUL 79	
1979-058C		PROGRESS 7	11423	USSR	27 JUN	26 JUL 79	
1979-058D			11421	USSR	28 JUN	20 JUL 79	
1979-059A			11422	USSR	28 JUN	30 JUN 79	
1979-059B			11429	USSR	29 JUN	14 JUL 79	
1979-061A		COSMOS 1111	11430	USSR	29 JUN	20 JUL 79	
1979-061B			11453	USSR	29 JUN	05 DEC 79	
1979-061C			11454	USSR	29 JUN	25 AUG 79	
1979-061D			11455	USSR	29 JUN	30 JUL 79	
1979-061E			11456	USSR	29 JUN	25 AUG 79	
1979-061F			11441	USSR	05 JUL	07 JUL 79	
1979-062B			11442	USSR	05 JUL	07 JUL 79	
1979-062C			14070	USSR	05 JUL	28 APR 84	
1979-062E			11443	USSR	06 JUL	21 JAN 80	
1979-063A		COSMOS 1112	11444	USSR	06 JUL	08 JAN 80	
1979-063B			11445	USSR	06 JUL	08 JUL 79	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-063D		11446	USSR	06 JUL	01 AUG 79	
1979-063E		11514	USSR	06 JUL	23 SEP 79	
1979-063F		11535	USSR	06 JUL	20 OCT 79	
1979-063G		11557	USSR	06 JUL	21 OCT 79	
1979-063H		11583	USSR	06 JUL	05 NOV 79	
1979-063J		11584	USSR	06 JUL	05 NOV 79	
1979-063K		11594	USSR	06 JUL	07 NOV 79	
1979-063L		11595	USSR	06 JUL	11 NOV 79	
1979-063M		11596	USSR	06 JUL	05 JAN 80	
1979-063N		11597	USSR	06 JUL	20 FEB 80	
1979-063P		11598	USSR	06 JUL	01 NOV 79	
1979-063Q		11599	USSR	06 JUL	07 DEC 79	
1979-063R		11603	USSR	06 JUL	12 NOV 79	
1979-063S		11603	USSR	06 JUL	05 DEC 79	
1979-063T		11617	USSR	06 JUL	05 DEC 79	
1979-063U		11618	USSR	06 JUL	22 NOV 79	
1979-063V		11619	USSR	06 JUL	05 DEC 79	
1979-063W		11620	USSR	06 JUL	30 NOV 79	
1979-063X		11625	USSR	06 JUL	04 DEC 79	
1979-063Y		11626	USSR	06 JUL	04 DEC 79	
1979-063Z		11627	USSR	06 JUL	05 DEC 79	
1979-063AA		11628	USSR	06 JUL	07 DEC 79	
1979-063AB		11643	USSR	06 JUL	21 DEC 79	
1979-063A		11644	USSR	06 JUL	21 DEC 79	
1979-064A	COSMOS 1113	11447	USSR	10 JUL	23 JUL 79	
1979-064B		11448	USSR	10 JUL	15 JUL 79	
1979-064C		11459	USSR	10 JUL	26 JUL 79	
1979-064D		11460	USSR	10 JUL	27 JUL 79	
1979-064E		11461	USSR	10 JUL	25 JUL 79	
1979-065A	COSMOS 1114	11449	USSR	11 JUL	26 DEC 81	
1979-065B		11450	USSR	11 JUL	05 FEB 82	
1979-066A	COSMOS 1115	11451	USSR	13 JUL	26 JUL 79	
1979-066B		11452	USSR	13 JUL	17 JUL 79	
1979-066C		11462	USSR	13 JUL	20 AUG 79	
1979-067A	COSMOS 1116	11457	USSR	20 JUL	11 MAR 93	
1979-068A		11463	USSR	25 JUL	07 AUG 79	
1979-068B	COSMOS 1117	11464	USSR	25 JUL	29 JUL 79	
1979-068C		11481	USSR	25 JUL	11 AUG 79	
1979-068D		11482	USSR	25 JUL	10 AUG 79	
1979-068E		11483	USSR	25 JUL	11 AUG 79	
1979-069A	COSMOS 1118	11465	USSR	27 JUL	09 AUG 79	
1979-069B		11466	USSR	27 JUL	31 JUL 79	
1979-069C		11477	USSR	27 JUL	07 AUG 79	
1979-070B		11475	USSR	31 JUL	20 AUG 79	
1979-070C		11476	USSR	31 JUL	14 AUG 79	
1979-071A	COSMOS 1119	11478	USSR	03 AUG	18 AUG 79	
1979-071B		11479	USSR	03 AUG	07 AUG 79	
1979-072B		11490	US	10 AUG	10 AUG 79	
1979-073A	COSMOS 1120	11485	USSR	11 AUG	24 AUG 79	
1979-073B		11486	USSR	11 AUG	15 AUG 79	
1979-073C		11505	USSR	11 AUG	28 AUG 79	
1979-073D		11506	USSR	11 AUG	31 AUG 79	
1979-074A	COSMOS 1121	11487	USSR	14 AUG	13 SEP 79	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-074B				11488	USSR	14 AUG	18 AUG 79	
1979-075A	COSMOS 1122			11491	USSR	17 AUG	30 AUG 79	
1979-075B				11492	USSR	17 AUG	20 AUG 79	
1979-075C				11498	USSR	17 AUG	27 AUG 79	
1979-075D				11499	USSR	17 AUG	25 AUG 79	
1979-075E				11507	USSR	17 AUG	27 AUG 79	
1979-076A	COSMOS 1123			11496	USSR	21 AUG	03 SEP 79	
1979-076B				11497	USSR	21 AUG	24 AUG 79	
1979-076C				11517	USSR	21 AUG	06 SEP 79	
1979-076D				11518	USSR	21 AUG	06 SEP 79	
1979-076E				11519	USSR	21 AUG	07 SEP 79	
1979-077B				11512	USSR	28 AUG	28 SEP 79	
1979-077C				11513	USSR	28 AUG	11 SEP 79	
1979-079A	COSMOS 1126			11515	USSR	31 AUG	14 SEP 79	
1979-079B				11516	USSR	31 AUG	09 SEP 79	
1979-079C				11524	USSR	31 AUG	26 OCT 79	
1979-079D				11525	USSR	31 AUG	16 FEB 80	
1979-079E				11526	USSR	31 AUG	16 FEB 80	
1979-079F				11527	USSR	31 AUG	16 SEP 79	
1979-079G				11528	USSR	31 AUG	17 OCT 79	
1979-080A	COSMOS 1127			11520	USSR	05 SEP	18 SEP 79	
1979-080B				11521	USSR	05 SEP	10 SEP 79	
1979-080C				11522	USSR	05 SEP	06 SEP 79	
1979-080D				11531	USSR	05 SEP	30 SEP 79	
1979-081A	COSMOS 1128			11529	USSR	14 SEP	27 SEP 79	
1979-081B				11530	USSR	14 SEP	17 SEP 79	
1979-081C				11547	USSR	14 SEP	27 SEP 79	
1979-082A	HEAD 3			11532	US	20 SEP	07 DEC 81	
1979-082B				11533	US	20 SEP	13 NOV 79	
1979-083A	COSMOS 1129			11536	USSR	25 SEP	14 OCT 79	
1979-083B				11537	USSR	25 SEP	06 OCT 79	
1979-083C				11579	USSR	25 SEP	31 OCT 79	
1979-083D				11580	USSR	25 SEP	18 OCT 79	
1979-083E				11582	USSR	25 SEP	16 MAR 80	
1979-085A	COSMOS 1138			11548	USSR	28 SEP	12 OCT 79	
1979-085B				11549	USSR	28 SEP	05 OCT 79	
1979-085C				11575	USSR	28 SEP	02 NOV 79	
1979-085D				11576	USSR	28 SEP	13 OCT 79	
1979-085E				11577	USSR	28 SEP	12 NOV 79	
1979-085F				11578	USSR	28 SEP	26 FEB 80	
1979-086B				11559	US	01 OCT	07 OCT 79	
1979-087B	COSMOS 1139			11562	USSR	03 OCT	05 OCT 79	
1979-088A				11564	USSR	05 OCT	18 OCT 79	
1979-088B				11565	USSR	05 OCT	11 OCT 79	
1979-088C				11566	USSR	05 OCT	07 OCT 79	
1979-090D				11588	USSR	16 OCT	07 SEP 82	
1979-091B				11590	USSR	20 OCT	11 NOV 79	
1979-091C				11591	USSR	20 OCT	10 NOV 79	
1979-092A	COSMOS 1142			11592	USSR	22 OCT	04 NOV 79	
1979-092B				11593	USSR	22 OCT	28 OCT 79	
1979-092C				11613	USSR	22 OCT	25 MAR 80	
1979-092D				11614	USSR	22 OCT	01 DEC 79	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979-092E		11615	USSR	22 OCT	21 NOV 79	
1979-092F		11616	USSR	22 OCT	09 MAR 80	
1979-094A	MAGSAT	11604	US	30 OCT	11 JUN 80	
1979-094B		11606	US	30 OCT	27 JAN 80	
1979-094C		11607	US	30 OCT	22 FEB 80	
1979-096A	INTERCOSMOS 20	11609	USSR	01 NOV	05 MAR 81	
1979-096B		11610	USSR	01 NOV	26 MAR 81	
1979-097A	COSMOS 1144	11611	USSR	02 NOV	04 DEC 79	
1979-097B		11612	USSR	02 NOV	05 NOV 79	
1979-098D		11624	US	21 NOV	21 NOV 79	
1979-100A	COSMOS 1146	11632	USSR	05 DEC	25 NOV 81	
1979-100B		11633	USSR	05 DEC	31 JAN 81	
1979-101B		11636	US	07 DEC	09 APR 80	
1979-101C		11637	US	07 DEC	27 MAR 80	
1979-102A	COSMOS 1147	11638	USSR	12 DEC	26 DEC 79	
1979-102B		11639	USSR	12 DEC	19 DEC 79	
1979-102C		11646	USSR	12 DEC	15 JAN 80	
1979-102D		11647	USSR	12 DEC	09 MAR 80	
1979-103A	SOYUZ T-1	11640	USSR	16 DEC	25 MAR 80	
1979-103B		11641	USSR	16 DEC	18 DEC 79	
1979-103C		11642	USSR	16 DEC	18 DEC 79	
1979-104A	ARIANE V1	11645	ESA	24 DEC	27 NOV 89	
1979-104B		11645	ESA	24 DEC	14 NOV 82	
1979-105B		11659	ESA	24 DEC	30 DEC 79	
1979-105C		11651	USSR	28 DEC	15 APR 82	
1979-105D		11660	USSR	28 DEC	03 DEC 84	
1979-106A	COSMOS 1148	11661	USSR	28 DEC	10 JAN 80	
1979-106B		11649	USSR	28 DEC	31 DEC 79	
1979-106C		11650	USSR	28 DEC	10 JAN 80	
1979-106D		11654	USSR	28 DEC	15 JAN 80	
1979-106E		11655	USSR	28 DEC	15 JAN 80	
1979-106F		11657	USSR	28 DEC	11 JAN 80	
1979-106F		11658	USSR	28 DEC	11 JAN 80	
1980 LAUNCHES						
1980-001A	COSMOS 1149	11652	USSR	09 JAN	23 JAN 80	
1980-001B		11653	USSR	09 JAN	17 JAN 80	
1980-001C		11656	USSR	09 JAN	19 JAN 80	
1980-001D		11673	USSR	09 JAN	11 JUN 80	
1980-001E		11674	USSR	09 JAN	18 FEB 80	
1980-001F		11675	USSR	09 JAN	11 JUN 80	
1980-001G		11677	USSR	09 JAN	27 JAN 80	
1980-002A	MOLNIYA 1-46	11662	USSR	11 JAN	22 OCT 92	
1980-002B		11663	USSR	11 JAN	28 JAN 80	
1980-002C		11664	USSR	11 JAN	24 JAN 80	
1980-002D		11665	USSR	11 JAN	21 JAN 80	
1980-002E		11666	USSR	11 JAN	04 DEC 92	
1980-002F		11670	USSR	11 JAN	05 JAN 90	
1980-004B		11719	US	18 JAN	06 FEB 80	
1980-006A	COSMOS 1152	11678	USSR	24 JAN	28 JAN 80	
1980-006B		11679	USSR	24 JAN	21 FEB 80	
1980-009A	COSMOS 1155	11685	USSR	07 FEB		

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980-009B			11686	USSR	07 FEB	16 FEB 80	
1980-009C			11711	USSR	07 FEB	13 MAR 80	
1980-009D			11712	USSR	07 FEB	02 MAR 80	
1980-009E			11717	USSR	07 FEB	10 APR 80	
1980-010A			11687	US	07 FEB	30 OCT 82	
1980-010B			11688	US	07 FEB	13 MAR 80	
1980-010C			11689	US	07 FEB	08 FEB 80	
1980-012K		COSMOS 1164	11725	USSR	11 FEB	05 MAR 80	
1980-013A			11700	USSR	12 FEB	12 JAN 81	
1980-013B			11701	USSR	12 FEB	10 MAR 80	
1980-013C			11702	USSR	12 FEB	03 APR 80	
1980-013D			11949	USSR	12 FEB	08 NOV 80	
1980-014A		SMM	11703	US	14 FEB	02 DEC 89	
1980-014B			11704	US	14 FEB	16 MAY 89	
1980-014C			20325	US	14 FEB	23 NOV 89	
1980-015A		TANSEI 4	11706	JAPAN	17 FEB	12 MAY 83	
1980-015B			11707	JAPAN	17 FEB	20 JAN 84	
1980-015C			11810	JAPAN	17 FEB	27 AUG 80	
1980-015D			11948	JAPAN	17 FEB	08 OCT 80	
1980-016B			11709	USSR	20 FEB	22 FEB 80	
1980-016C			11710	USSR	20 FEB	22 FEB 80	
1980-016E			11801	USSR	20 FEB	12 JAN 81	
1980-016F		COSMOS 1165	11802	USSR	20 FEB	15 APR 82	
1980-017A			11713	USSR	21 FEB	05 MAR 80	
1980-017B			11714	USSR	21 FEB	25 FEB 80	
1980-017C			11726	USSR	21 FEB	07 MAR 80	
1980-017D			11727	USSR	21 FEB	06 MAR 80	
1980-018B			11716	JAPAN	22 FEB	28 FEB 80	
1980-018D			13262	JAPAN	22 FEB	08 JUN 82	
1980-020A		COSMOS 1166	11722	USSR	04 MAR	18 MAR 80	
1980-020B			11723	USSR	04 MAR	13 MAR 80	
1980-020C			11724	USSR	04 MAR	10 MAR 80	
1980-020D			11737	USSR	04 MAR	04 SEP 80	
1980-020E			11738	USSR	04 MAR	28 APR 80	
1980-020F			11739	USSR	04 MAR	09 APR 80	
1980-021A		COSMOS 1167	11729	USSR	14 MAR	01 OCT 81	
1980-021B			11730	USSR	14 MAR	14 MAR 80	
1980-021C			12605	USSR	14 MAR	06 AUG 81	
1980-021D			12606	USSR	14 MAR	01 DEC 82	
1980-021E			12607	USSR	14 MAR	22 AUG 81	
1980-021F			12608	USSR	14 MAR	12 AUG 81	
1980-021G			12609	USSR	14 MAR	15 OCT 81	
1980-021H			12610	USSR	14 MAR	14 DEC 81	
1980-021J			12611	USSR	14 MAR	22 AUG 81	
1980-021K			12612	USSR	14 MAR	16 AUG 81	
1980-021L			12613	USSR	14 MAR	02 AUG 81	
1980-021M			12615	USSR	14 MAR	27 AUG 81	
1980-021N			12616	USSR	14 MAR	27 AUG 81	
1980-023A		COSMOS 1169	11741	USSR	27 MAR	03 MAR 83	
1980-023B			11742	USSR	27 MAR	04 NOV 81	
1980-024A		PROGRESS 8	11743	USSR	27 MAR	26 APR 80	
1980-024B			11744	USSR	27 MAR	29 MAR 80	

INTER- NATIONAL DESIGNATION		NAME	DECAYED OBJECTS		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980-025A		COSMOS 1170	11747		USSR	01 APR	12 APR 80		
1980-025B			11748		USSR	01 APR	05 APR 80		
1980-025C			11749		USSR	01 APR	03 APR 80		
1980-025D			11755		USSR	01 APR	14 APR 80		
1980-025E			11756		USSR	01 APR	13 APR 80		
1980-025F		SOYUZ 35	11757		USSR	01 APR	13 APR 80		
1980-027A			11753		USSR	09 APR	03 JUN 80		
1980-027B			11754		USSR	09 APR	11 APR 80		
1980-028B			11759		USSR	12 APR	26 APR 80		
1980-028C			11760		USSR	12 APR	08 MAY 80		
1980-028D		COSMOS 1173	11761		USSR	12 APR	20 APR 80		
1980-029A			11763		USSR	17 APR	28 APR 80		
1980-029B			11764		USSR	17 APR	21 APR 80		
1980-029C			11786		USSR	17 APR	30 APR 80		
1980-029D			11787		USSR	17 APR	30 APR 80		
1980-030B			11766		USSR	18 APR	20 APR 80		
1980-030C			11771		USSR	18 APR	30 DEC 80		
1980-030D			11772		USSR	18 APR	19 APR 81		
1980-030E			11773		USSR	18 APR	17 JAN 81		
1980-030F			11774		USSR	18 APR	17 APR 81		
1980-030G			11775		USSR	18 APR	10 AUG 89		
1980-030H			11776		USSR	18 APR	17 FEB 82		
1980-030I			11779		USSR	18 APR	10 MAR 83		
1980-030L			11780		USSR	18 APR	17 FEB 81		
1980-030M			11782		USSR	18 APR	24 JUN 84		
1980-030P			12098		USSR	18 APR	01 DEC 82		
1980-030Q			12344		USSR	18 APR	08 SEP 82		
1980-030S			12345		USSR	18 APR	09 JAN 92		
1980-030T			12346		USSR	18 APR	24 APR 82		
1980-030U			12348		USSR	18 APR	26 FEB 91		
1980-030V			12349		USSR	18 APR	15 DEC 82		
1980-030X			12355		USSR	18 APR	03 DEC 81		
1980-030Z			12356		USSR	18 APR	21 MAR 82		
1980-030AA			12357		USSR	18 APR	09 NOV 89		
1980-030AB			12358		USSR	18 APR	25 OCT 82		
1980-030AC			12359		USSR	18 APR	17 AUG 81		
1980-030AD			12361		USSR	18 APR	27 JUL 81		
1980-030AF			12362		USSR	18 APR	18 APR 82		
1980-030AG			12365		USSR	18 APR	10 MAR 91		
1980-030AH			13925		USSR	18 APR	31 AUG 88		
1980-030AJ			13926		USSR	18 APR	15 MAR 89		
1980-030AK			13927		USSR	18 APR	21 JUN 88		
1980-030AL			13928		USSR	18 APR	02 MAY 91		
1980-030AN			13930		USSR	18 APR	18 FEB 91		
1980-030AP			13931		USSR	18 APR	09 SEP 93		
1980-030AQ			13932		USSR	18 APR	30 SEP 83		
1980-030AR			14920		USSR	18 APR	27 DEC 89		
1980-030AS			14921		USSR	18 APR	20 OCT 88		
1980-030AT			14922		USSR	18 APR	17 JAN 89		
1980-030AU			14923		USSR	18 APR	03 FEB 89		
1980-030AV			15759		USSR	18 APR	14 FEB 88		
1980-030AW			11767		USSR	18 APR	28 MAY 80		

INTER - NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1980-031B			11768		USSR	18 APR	02 MAY 80	
1980-031C			11769		USSR	18 APR	29 SEP 80	
1980-031D			11770		USSR	18 APR	30 MAY 80	
1980-033A	PROGRESS 9		11784		USSR	27 APR	22 MAY 80	
1980-033B			11785		USSR	29 APR	29 APR 80	
1980-034B			11968		USSR	29 APR	04 OCT 80	
1980-034C			11969		USSR	29 APR	12 SEP 80	
1980-035A	COSMOS 1177-		11789		USSR	29 APR	12 JUN 80	
1980-035B			11790		USSR	29 APR	02 MAY 80	
1980-035C			11840		USSR	29 APR	16 JUN 80	
1980-036A	COSMOS 1178		11793		USSR	07 MAY	22 MAY 80	
1980-036B			11794		USSR	07 MAY	14 MAY 80	
1980-036C			11795		USSR	07 MAY	12 MAY 80	
1980-036D			11805		USSR	07 MAY	07 JUL 80	
1980-036E			11806		USSR	07 MAY	16 NOV 80	
1980-036F			11807		USSR	07 MAY	22 JUN 80	
1980-037A	COSMOS 1179		11796		USSR	14 MAY	18 JUL 89	
1980-037B			11797		USSR	14 MAY	11 JAN 83	
1980-038A	COSMOS 1180		11798		USSR	15 MAY	26 MAY 80	
1980-038B			11799		USSR	15 MAY	23 MAY 80	
1980-038C			11800		USSR	15 MAY	17 MAY 80	
1980-038D			11813		USSR	15 MAY	30 MAY 80	
1980-038E			11814		USSR	15 MAY	31 MAY 80	
1980-038F			11815		USSR	15 MAY	31 MAY 80	
1980-040A	COSMOS 1182		11808		USSR	23 MAY	05 JUN 80	
1980-040B			11809		USSR	23 MAY	26 MAY 80	
1980-040C			11823		USSR	10 JUN	10 JUN 80	
1980-040D			11824		USSR	23 MAY	09 JUN 80	
1980-041A	SOYUZ 36		11811		USSR	26 MAY	31 JUL 80	
1980-041B			11812		USSR	26 MAY	29 MAY 80	
1980-042A	COSMOS 1183		11816		USSR	28 MAY	11 JUN 80	
1980-042B			11817		USSR	28 MAY	05 JUN 80	
1980-042C			11818		USSR	28 MAY	09 JUN 80	
1980-042D			11833		USSR	28 MAY	13 JUL 80	
1980-042E			11834		USSR	28 MAY	03 AUG 80	
1980-042F			11835		USSR	28 MAY	14 JUN 80	
1980-042G			11836		USSR	28 MAY	04 DEC 80	
1980-043A	NOAA B		11819		US	29 MAY	03 MAY 81	
1980-043B			11820		US	29 MAY	11 SEP 80	
1980-043C			11874		US	29 MAY	27 AUG 80	
1980-045A	SOYUZ T-2		11825		USSR	05 JUN	09 JUN 80	
1980-045B			11826		USSR	05 JUN	07 JUN 80	
1980-046A	COSMOS 1185		11827		USSR	06 JUN	20 JUN 80	
1980-046B			11828		USSR	06 JUN	11 JUN 80	
1980-046C			11853		USSR	06 JUN	04 JUL 80	
1980-046D			11854		USSR	06 JUN	25 JUN 80	
1980-047A	COSMOS 1186		11829		USSR	06 JUN	01 JAN 82	
1980-047B			11830		USSR	06 JUN	16 DEC 81	
1980-047C			11831		USSR	06 JUN	17 JUN 80	
1980-047D			11912		USSR	06 JUN	24 SEP 80	
1980-047E			11913		USSR	06 JUN	14 SEP 80	
1980-047F			12407		USSR	06 JUN	03 MAY 81	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980-047G		12408	USSR	06 JUN	03 MAY 81	
1980-047H		12412	USSR	06 JUN	01 MAY 81	
1980-047J		12413	USSR	06 JUN	03 MAY 81	
1980-047K		12414	USSR	06 JUN	03 MAY 81	
1980-047L		12415	USSR	06 JUN	03 MAY 81	
1980-047M		12416	USSR	06 JUN	03 MAY 81	
1980-047N		12422	USSR	06 JUN	03 MAY 81	
1980-047P		12453	USSR	06 JUN	28 MAY 81	
1980-047Q		12459	USSR	06 JUN	20 MAY 81	
1980-047R		12480	USSR	06 JUN	22 JUN 81	
1980-047S		12481	USSR	06 JUN	18 JUN 81	
1980-047T		12482	USSR	06 JUN	15 JUN 81	
1980-047U		12483	USSR	06 JUN	22 JUN 81	
1980-047V		12484	USSR	06 JUN	18 JUN 81	
1980-047W		12485	USSR	06 JUN	17 JUN 81	
1980-047X		12486	USSR	06 JUN	29 SEP 81	
1980-047Y		12487	USSR	06 JUN	14 JUN 81	
1980-047Z		12490	USSR	06 JUN	20 JUN 81	
1980-047AA		12509	USSR	06 JUN	14 JUN 81	
1980-047AB		12510	USSR	06 JUN	20 JUN 81	
1980-047AC		12511	USSR	06 JUN	13 JUL 81	
1980-048A	COSMOS 1187	11837	USSR	12 JUN	26 JUN 80	
1980-048B		11838	USSR	12 JUN	17 JUN 80	
1980-048C		11839	USSR	12 JUN	17 JUN 80	
1980-048D		11865	USSR	12 JUN	29 JUN 80	
1980-048E		11866	USSR	12 JUN	18 JUL 80	
1980-049B		11842	USSR	14 JUN	15 JUN 80	
1980-049C		11843	USSR	14 JUN	14 JUN 80	
1980-049D		11859	USSR	14 JUN	20 APR 82	
1980-049E		11860	USSR	14 JUN	22 MAR 82	
1980-050C		11845	USSR	14 JUN	17 JUL 80	
1980-050D		11846	USSR	14 JUN	06 JUL 80	
1980-051A	METEOR 1-30	11848	USSR	18 JUN	01 MAR 92	
1980-052A		11850	US	18 JUN	06 MAR 81	
1980-052B		11851	US	18 JUN	20 JUN 80	
1980-053A	MOLNIYA 1-47	11856	USSR	21 JUN	01 APR 91	
1980-053B		11857	USSR	21 JUN	28 JUL 80	
1980-053C		11858	USSR	21 JUN	25 JUL 80	
1980-053D		11861	USSR	21 JUN	13 MAR 91	
1980-054A	COSMOS 1189	11863	USSR	26 JUN	10 JUL 80	
1980-054B		11864	USSR	26 JUN	01 JUL 80	
1980-054C		11866	USSR	26 JUN	13 JUL 80	
1980-054D		11867	USSR	26 JUN	04 AUG 80	
1980-054E		11889	USSR	26 JUN	18 JUL 80	
1980-055A	PROGRESS 10	11867	USSR	29 JUN	19 JUL 80	
1980-055B		11868	USSR	29 JUN	02 JUL 80	
1980-057B		11872	USSR	02 JUL	02 AUG 80	
1980-057C		11873	USSR	02 JUL	31 JUL 80	
1980-059A	COSMOS 1200	11884	USSR	09 JUL	23 JUL 80	
1980-059B		11885	USSR	09 JUL	15 JUL 80	
1980-059C		11901	USSR	09 JUL	30 JUL 80	
1980-059D		11902	USSR	09 JUL	17 AUG 80	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980-059E	COSMOS 1201	11903	USSR	09 JUL	27 JUL 80	
1980-059F		11904	USSR	09 JUL	28 JUL 80	
1980-060B		11891	USSR	14 JUL	16 JUL 80	
1980-060C		11892	USSR	14 JUL	15 JUL 80	
1980-060D		11914	USSR	14 JUL	20 APR 82	
1980-060E		11923	USSR	14 JUL	02 APR 81	
1980-061A		11894	USSR	15 JUL	28 JUL 80	
1980-061B		11895	USSR	15 JUL	18 JUL 80	
1980-061C		11910	USSR	15 JUL	31 JUL 80	
1980-061D		11911	USSR	15 JUL	02 AUG 80	
1980-062A	ROHINI 1	11899	INDIA	18 JUL	20 MAY 81	
1980-062B		11900	INDIA	18 JUL	23 JUL 81	
1980-063B		11897	USSR	18 JUL	02 AUG 80	
1980-063C		11898	USSR	18 JUL	04 AUG 80	
1980-064A		11905	USSR	23 JUL	11 OCT 80	
1980-064B	SOYUZ 37	11906	USSR	23 JUL	27 JUL 80	
1980-065A		11907	USSR	24 JUL	07 AUG 80	
1980-065B		11908	USSR	24 JUL	29 JUL 80	
1980-065C		11920	USSR	24 JUL	23 AUG 80	
1980-065D		11921	USSR	24 JUL	10 AUG 80	
1980-065E	COSMOS 1203	11922	USSR	24 JUL	11 AUG 80	
1980-066A		11915	USSR	31 JUL	14 AUG 80	
1980-066B		11916	USSR	31 JUL	06 AUG 80	
1980-066C		11919	USSR	31 JUL	02 AUG 80	
1980-066D		11927	USSR	31 JUL	30 AUG 80	
1980-066E		11928	USSR	31 JUL	21 AUG 80	
1980-066F		11929	USSR	31 JUL	19 AUG 80	
1980-067A		11917	USSR	31 JUL	23 FEB 81	
1980-067B		11918	USSR	31 JUL	13 FEB 81	
1980-067C		11960	USSR	31 JUL	14 OCT 80	
1980-067D	COSMOS 1204	11961	USSR	31 JUL	14 OCT 80	
1980-067E		11987	USSR	31 JUL	31 OCT 80	
1980-067F		11988	USSR	31 JUL	24 OCT 80	
1980-067G		11989	USSR	31 JUL	26 OCT 80	
1980-067H		11992	USSR	31 JUL	03 NOV 80	
1980-067J		12010	USSR	31 JUL	03 NOV 80	
1980-067K		12011	USSR	31 JUL	04 NOV 80	
1980-067L		12014	USSR	31 JUL	10 NOV 80	
1980-067M		12015	USSR	31 JUL	27 NOV 80	
1980-067N		12036	USSR	31 JUL	18 NOV 80	
1980-067P	COSMOS 1205	12037	USSR	31 JUL	18 NOV 80	
1980-067Q		12038	USSR	31 JUL	18 NOV 80	
1980-067R		12047	USSR	31 JUL	23 NOV 80	
1980-067S		12048	USSR	31 JUL	03 DEC 80	
1980-067T		12049	USSR	31 JUL	19 NOV 80	
1980-067U		12052	USSR	31 JUL	17 NOV 80	
1980-067V		12053	USSR	31 JUL	16 NOV 80	
1980-067W		12056	USSR	31 JUL	23 NOV 80	
1980-067X		12057	USSR	31 JUL	14 DEC 80	
1980-067Y		12074	USSR	31 JUL	13 DEC 80	
1980-067Z	COSMOS 1205	12075	USSR	31 JUL	13 DEC 80	
1980-068A		11924	USSR	12 AUG	26 AUG 80	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980-068B		11925	USSR	12 AUG	17 AUG 80	
1980-068C		11943	USSR	12 AUG	10 SEP 80	
1980-068D		11944	USSR	12 AUG	29 AUG 80	
1980-070A	COSMOS 1207	11938	USSR	22 AUG	04 SEP 80	
1980-070B		11939	USSR	22 AUG	26 AUG 80	
1980-070C		11954	USSR	22 AUG	08 SEP 80	
1980-070D		11959	USSR	22 AUG	08 SEP 80	
1980-071A	COSMOS 1208	11945	USSR	26 AUG	24 SEP 80	
1980-071B		11946	USSR	26 AUG	30 AUG 80	
1980-072A	COSMOS 1209	11950	USSR	03 SEP	17 SEP 80	
1980-072B		11951	USSR	03 SEP	07 SEP 80	
1980-072C		11976	USSR	03 SEP	30 SEP 80	
1980-074B		11965	US	09 SEP	01 DEC 80	
1980-075A	SOYUZ 38	11977	USSR	18 SEP	26 SEP 80	
1980-075B		11978	USSR	18 SEP	21 SEP 80	
1980-075C		11979	USSR	18 SEP	21 SEP 80	
1980-076A	COSMOS 1210	11980	USSR	19 SEP	03 OCT 80	
1980-076B		11981	USSR	19 SEP	21 SEP 80	
1980-076C		11995	USSR	19 SEP	11 OCT 80	
1980-076D		11996	USSR	19 SEP	06 OCT 80	
1980-076E		11999	USSR	19 SEP	29 OCT 80	
1980-076F		12001	USSR	19 SEP	10 OCT 80	
1980-076G		12002	USSR	19 SEP	05 OCT 80	
1980-077A	COSMOS 1211	11982	USSR	23 SEP	04 OCT 80	
1980-077B		11983	USSR	23 SEP	26 SEP 80	
1980-078A	COSMOS 1212	11985	USSR	26 SEP	09 OCT 80	
1980-078B		11986	USSR	26 SEP	29 SEP 80	
1980-078C		12006	USSR	26 SEP	10 OCT 80	
1980-078D		12007	USSR	26 SEP	11 OCT 80	
1980-079A	PROGRESS 11	11993	USSR	28 SEP	11 DEC 80	
1980-079B		11994	USSR	28 SEP	30 SEP 80	
1980-080A	COSMOS 1213	11997	USSR	03 OCT	17 OCT 80	
1980-080B		11998	USSR	03 OCT	07 OCT 80	
1980-080C		12022	USSR	03 OCT	06 NOV 80	
1980-080D		12023	USSR	03 OCT	24 OCT 80	
1980-080E		12024	USSR	03 OCT	24 OCT 80	
1980-080F		12025	USSR	03 OCT	22 OCT 80	
1980-081B		12004	USSR	05 OCT	07 OCT 80	
1980-081C		12005	USSR	05 OCT	06 OCT 80	
1980-081D		12012	USSR	05 OCT	15 APR 82	
1980-081E		12013	USSR	05 OCT	14 JUN 82	
1980-082A	COSMOS 1214	12008	USSR	10 OCT	23 OCT 80	
1980-082B		12009	USSR	10 OCT	13 OCT 80	
1980-082C		12029	USSR	10 OCT	25 OCT 80	
1980-082D		12030	USSR	10 OCT	25 OCT 80	
1980-082E		12031	USSR	10 OCT	25 OCT 80	
1980-083A	COSMOS 1215	12016	USSR	14 OCT	12 MAY 83	
1980-083B		12017	USSR	14 OCT	27 AUG 82	
1980-083C		12018	USSR	14 OCT	10 JAN 81	
1980-083D		12026	USSR	14 OCT	18 NOV 80	
1980-084A	COSMOS 1216	12019	USSR	16 OCT	30 OCT 80	
1980-084B		12020	USSR	16 OCT	23 OCT 80	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980-084C			12021	USSR	16 OCT	22 OCT 80	
1980-084D			12040	USSR	16 OCT	05 DEC 80	
1980-084E			12041	USSR	16 OCT	26 MAR 81	
1980-084F			12043	USSR	16 OCT	13 APR 81	
1980-084G			12044	USSR	16 OCT	02 MAR 81	
1980-084H			12045	USSR	16 OCT	21 NOV 80	
1980-085B			12033	USSR	24 OCT	17 NOV 80	
1980-085C			12034	USSR	24 OCT	07 NOV 80	
1980-086A			12039	USSR	30 OCT	12 DEC 80	
1980-086B			12042	USSR	30 OCT	02 NOV 80	
1980-088A			12050	USSR	31 OCT	13 NOV 80	
1980-088B			12051	USSR	31 OCT	04 NOV 80	
1980-088C			12060	USSR	31 OCT	18 NOV 80	
1980-088D			12061	USSR	31 OCT	24 NOV 80	
1980-088E			12062	USSR	31 OCT	26 NOV 80	
1980-088F			12063	USSR	31 OCT	23 NOV 80	
1980-088G			12064	USSR	31 OCT	15 NOV 80	
1980-089B			12055	USSR	04 NOV	05 NOV 80	
1980-089C			13308	USSR	04 NOV	19 OCT 87	
1980-089D			13309	USSR	04 NOV	25 AUG 84	
1980-089E			13310	USSR	04 NOV	12 NOV 87	
1980-089F			13311	USSR	04 NOV	21 NOV 82	
1980-089G			13312	USSR	04 NOV	05 MAR 84	
1980-089H			13313	USSR	04 NOV	07 JAN 89	
1980-089J			13314	USSR	04 NOV	12 AUG 82	
1980-089K			13315	USSR	04 NOV	04 NOV 83	
1980-089L			13316	USSR	04 NOV	05 APR 88	
1980-089M			13317	USSR	04 NOV	28 MAR 83	
1980-089N			13318	USSR	04 NOV	05 SEP 89	
1980-089P			13319	USSR	04 NOV	13 FEB 90	
1980-089Q			13320	USSR	04 NOV	03 SEP 85	
1980-089R			13321	USSR	04 NOV	28 OCT 82	
1980-089S			13322	USSR	04 NOV	19 DEC 88	
1980-089T			13323	USSR	04 NOV	17 FEB 84	
1980-089U			13324	USSR	04 NOV	28 MAR 89	
1980-089V			13325	USSR	04 NOV	25 APR 84	
1980-089W			13326	USSR	04 NOV	08 JAN 88	
1980-089X			13327	USSR	04 NOV	23 JUL 82	
1980-089Y			13328	USSR	04 NOV	11 JAN 89	
1980-089Z			13329	USSR	04 NOV	13 JUL 82	
1980-089AA			13330	USSR	04 NOV	12 AUG 83	
1980-089AB			13331	USSR	04 NOV	28 APR 90	
1980-089AC			13333	USSR	04 NOV	16 JAN 89	
1980-089AD			13334	USSR	04 NOV	10 APR 83	
1980-089AE			13335	USSR	04 NOV	01 DEC 83	
1980-089AF			13336	USSR	04 NOV	15 MAR 86	
1980-089AG			13337	USSR	04 NOV	30 OCT 82	
1980-089AH			13338	USSR	04 NOV	10 SEP 83	
1980-089AJ			13339	USSR	04 NOV	17 AUG 85	
1980-089AK			13340	USSR	04 NOV	06 FEB 91	
1980-089AL			13341	USSR	04 NOV	07 DEC 88	
1980-089AM			13342	USSR	04 NOV	27 APR 83	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980-089AN		13343	USSR	04 NOV	05 FEB 89	
1980-089AP		13344	USSR	04 NOV	29 AUG 88	
1980-089AQ		13347	USSR	04 NOV	22 DEC 82	
1980-089AR		13348	USSR	04 NOV	06 OCT 82	
1980-089AS		13349	USSR	04 NOV	15 DEC 82	
1980-089AT		13350	USSR	04 NOV	26 JUL 83	
1980-089AU		13351	USSR	04 NOV	09 MAY 84	
1980-089AV		13352	USSR	04 NOV	10 OCT 87	
1980-089AW		13355	USSR	04 NOV	07 MAY 83	
1980-089AX		13356	USSR	04 NOV	16 JUL 88	
1980-089AY		13357	USSR	04 NOV	23 JAN 83	
1980-089AZ		13358	USSR	04 NOV	06 JUL 89	
1980-089BA		13359	USSR	04 NOV	02 FEB 90	
1980-089BB		13506	USSR	04 NOV	25 OCT 89	
1980-089BC		13680	USSR	04 NOV	05 JUL 88	
1980-089BD		13687	USSR	04 NOV	08 SEP 83	
1980-089BE		13688	USSR	04 NOV	03 MAR 83	
1980-089BF		14348	USSR	04 NOV	24 OCT 84	
1980-089BG		14349	USSR	04 NOV	04 MAR 84	
1980-089BH		14350	USSR	04 NOV	27 MAY 88	
1980-089BJ		14351	USSR	04 NOV	09 NOV 85	
1980-089BK		14352	USSR	04 NOV	15 APR 85	
1980-089BL		14353	USSR	04 NOV	11 JUL 88	
1980-089BM		14354	USSR	04 NOV	07 FEB 89	
1980-089BN		14355	USSR	04 NOV	18 MAR 89	
1980-089BP		14431	USSR	04 NOV	02 MAR 89	
1980-089BQ		14432	USSR	04 NOV	27 JUN 84	
1980-089BR		14433	USSR	04 NOV	03 JUL 89	
1980-089BS		14449	USSR	04 NOV	24 APR 84	
1980-089BT		14831	USSR	04 NOV	28 SEP 85	
1980-089BU		14832	USSR	04 NOV	09 SEP 85	
1980-089BV		14833	USSR	04 NOV	19 AUG 88	
1980-089BW		15763	USSR	04 NOV	24 DEC 88	
1980-089BX		17654	USSR	04 NOV	12 AUG 89	
1980-089BY		17655	USSR	04 NOV	21 JAN 89	
1980-089BZ		17656	USSR	04 NOV	20 FEB 89	
1980-089CA		17657	USSR	04 NOV	02 FEB 89	
1980-089CB		18233	USSR	04 NOV	14 MAY 89	
1980-089CC		18495	USSR	04 NOV	18 OCT 88	
1980-089CD		18610	USSR	04 NOV	16 OCT 88	
1980-089CE		19148	USSR	04 NOV	12 JAN 89	
1980-089CF		19171	USSR	04 NOV	17 JAN 89	
1980-089CG		19177	USSR	12 NOV	26 NOV 80	
1980-090A	COSMOS 1221	12058	USSR	12 NOV	20 NOV 80	
1980-090B		12059	USSR	12 NOV	14 APR 81	
1980-090C		12073	USSR	12 NOV	03 JAN 81	
1980-090D		12076	USSR	12 NOV	22 DEC 80	
1980-090E		12083	USSR	12 NOV	03 MAY 81	
1980-091B		12336	US	15 NOV	13 DEC 80	
1980-092B		12067	USSR	16 NOV	12 DEC 80	
1980-092C		12068	USSR	16 NOV	10 DEC 80	
1980-094A	SOYUZ T-3	12077	USSR	27 NOV		

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980-094B		12079	USSR	27 NOV	29 NOV 80	
1980-095B		12080	USSR	27 NOV	22 DEC 80	
1980-095C		12081	USSR	27 NOV	21 DEC 80	
1980-095D		12082	USSR	27 NOV	08 DEC 80	
1980-096A	COSMOS 1224	12084	USSR	01 DEC	15 DEC 80	
1980-096B		12085	USSR	01 DEC	09 DEC 80	
1980-096C		12095	USSR	01 DEC	04 MAY 81	
1980-096D		12096	USSR	01 DEC	15 MAR 81	
1980-096E		12097	USSR	01 DEC	26 JAN 81	
1980-101A	COSMOS 1227	12100	USSR	16 DEC	28 DEC 80	
1980-101B		12101	USSR	16 DEC	20 DEC 80	
1980-101C		12127	USSR	16 DEC	15 JAN 81	
1980-101D		12128	USSR	16 DEC	03 JAN 81	
1980-101E		12129	USSR	16 DEC	30 DEC 80	
1980-103A	PROGNOZ 8	12116	USSR	25 DEC	01 JAN 93	
1980-103B		12118	USSR	25 DEC	20 JAN 81	
1980-103C		12119	USSR	25 DEC	14 JAN 81	
1980-103D		12117	USSR	25 DEC	12 JAN 81	
1980-104B		12122	USSR	26 DEC	28 DEC 80	
1980-104C		12123	USSR	26 DEC	27 DEC 80	
1980-104D		12137	USSR	26 DEC	20 APR 82	
1980-104F		16869	USSR	26 DEC	26 DCT 86	
1980-105A	COSMOS 1236	12121	USSR	26 DEC	21 JAN 81	
1980-105B		12124	USSR	26 DEC	30 DEC 80	
1980-105C		12125	USSR	26 DEC	08 JAN 81	
1980-105D		12126	USSR	26 DEC	13 JAN 81	

## 1981 LAUNCHES

1981-001A	COSMOS 1237	12130	USSR	06 JAN	20 JAN 81	
1981-001B		12131	USSR	06 JAN	15 JAN 81	
1981-001C		12132	USSR	06 JAN	12 JAN 81	
1981-001D		12145	USSR	06 JAN	05 JUN 81	
1981-001E		12146	USSR	06 JAN	25 JAN 81	
1981-001F		12147	USSR	06 JAN	03 MAR 81	
1981-001G		12148	USSR	06 JAN	10 FEB 81	
1981-002C		12135	USSR	09 JAN	27 JAN 81	
1981-002D		12136	USSR	09 JAN	22 JAN 81	
1981-004A	COSMOS 1239	12140	USSR	16 JAN	28 JAN 81	
1981-004B		12141	USSR	16 JAN	20 JAN 81	
1981-005A	COSMOS 1240	12143	USSR	20 JAN	17 FEB 81	
1981-005B		12144	USSR	20 JAN	24 JAN 81	
1981-007A	PROGRESS 12	12152	USSR	24 JAN	20 MAR 81	
1981-007B		12153	USSR	24 JAN	27 JAN 81	
1981-009B		12157	USSR	30 JAN	14 FEB 81	
1981-009C	COSMOS 1243	12158	USSR	02 FEB	09 FEB 81	
1981-010A		12160	USSR	02 FEB	02 FEB 81	
1981-010B		12161	USSR	02 FEB	04 FEB 81	
1981-011A	INTERCOSMOS 21	12162	USSR	06 FEB	07 JUL 82	
1981-011B		12163	USSR	06 FEB	22 JUN 82	
1981-012B		12296	JAPAN	11 FEB	28 FEB 81	
1981-014A	COSMOS 1245	12299	USSR	13 FEB	27 FEB 81	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981-014B		12300	USSR	13 FEB	21 FEB 81	
1981-014C		12312	USSR	13 FEB	01 APR 81	
1981-014D		12313	USSR	13 FEB	05 MAR 81	
1981-014E		12314	USSR	13 FEB	15 MAR 81	
1981-014F		12316	USSR	13 FEB	22 JUL 81	
1981-015A		12301	USSR	18 FEB	13 MAR 81	
1981-015B	COSMOS 1246	12302	USSR	18 FEB	21 FEB 81	
1981-016B		12304	USSR	19 FEB	13 MAR 81	
1981-016C		12305	USSR	19 FEB	25 FEB 81	
1981-016D		12306	USSR	19 FEB	13 APR 81	
1981-017A	ASTRO A	12307	JAPAN	21 FEB	11 JUL 91	
1981-017B		12308	JAPAN	21 FEB	26 MAY 91	
1981-017C		12310	JAPAN	21 FEB	25 NOV 81	
1981-019A		12315	US	28 FEB	20 JUN 81	
1981-020A	COSMOS 1248	12317	USSR	05 MAR	04 APR 81	
1981-020B		12318	USSR	05 MAR	08 MAR 81	
1981-021B		12550	USSR	05 MAR	22 JUN 81	
1981-021D		12552	USSR	05 MAR	19 JUL 81	
1981-023A	SDVUZ T-4	12334	USSR	12 MAR	26 MAY 81	
1981-023B		12335	USSR	12 MAR	14 MAR 81	
1981-024A	COSMOS 1258	12337	USSR	14 MAR	14 MAR 81	
1981-024B		12338	USSR	14 MAR	15 MAR 81	
1981-025B		12340	US	16 MAR	18 MAR 81	
1981-026A	COSMOS 1259	12341	USSR	17 MAR	31 MAR 81	
1981-026B		12342	USSR	17 MAR	25 MAR 81	
1981-026C		12350	USSR	17 MAR	11 APR 81	
1981-026D		12379	USSR	17 MAR	29 APR 81	
1981-026E		12380	USSR	17 MAR	08 JUL 81	
1981-026F		12381	USSR	17 MAR	30 AUG 81	
1981-026G		12382	USSR	17 MAR	19 APR 81	
1981-027B		12352	USSR	18 MAR	18 MAR 81	
1981-027C		12353	USSR	18 MAR	20 MAR 81	
1981-027D		12396	USSR	18 MAR	15 APR 82	
1981-027E		12397	USSR	18 MAR	15 APR 82	
1981-028A		12364	USSR	18 MAR	22 MAY 82	
1981-028B	COSMOS 1260	12365	USSR	20 MAR	21 MAR 81	
1981-028C		13180	USSR	20 MAR	05 SEP 82	
1981-028D		13182	USSR	20 MAR	10 SEP 82	
1981-028E		13183	USSR	20 MAR	07 DEC 89	
1981-028F		13184	USSR	20 MAR	06 AUG 91	
1981-028G		13185	USSR	20 MAR	09 AUG 83	
1981-028H		13186	USSR	20 MAR	04 NOV 82	
1981-028J		13187	USSR	20 MAR	11 JAN 83	
1981-028K		13188	USSR	20 MAR	10 OCT 83	
1981-028L		13189	USSR	20 MAR	15 JUN 82	
1981-028M		13190	USSR	20 MAR	22 OCT 88	
1981-028N		13191	USSR	20 MAR	02 NOV 82	
1981-028P		13192	USSR	20 MAR	19 SEP 83	
1981-028Q		13193	USSR	20 MAR	15 JUN 85	
1981-028R		13194	USSR	20 MAR	13 JUN 82	
1981-028S		13195	USSR	20 MAR	01 SEP 82	
1981-028T			USSR	20 MAR	10 SEP 82	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981-028U		13196	USSR	20 MAR	31 MAY 82	
1981-028V		13197	USSR	20 MAR	11 DEC 84	
1981-028W		13198	USSR	20 MAR	03 OCT 82	
1981-028X		13199	USSR	20 MAR	31 AUG 82	
1981-028Y		13200	USSR	20 MAR	16 JUN 82	
1981-028Z		13201	USSR	20 MAR	15 JUN 82	
1981-028AA		13202	USSR	20 MAR	14 AUG 82	
1981-028AB		13203	USSR	20 MAR	21 JUN 82	
1981-028AC		13221	USSR	20 MAR	15 JUN 82	
1981-028AD		13222	USSR	20 MAR	14 AUG 82	
1981-028AE		13223	USSR	20 MAR	09 SEP 82	
1981-028AF		13224	USSR	20 MAR	31 DEC 82	
1981-028AG		13225	USSR	20 MAR	09 AUG 82	
1981-028AH		13226	USSR	20 MAR	05 OCT 82	
1981-028AJ		13227	USSR	20 MAR	02 JUN 82	
1981-028AK		13228	USSR	20 MAR	04 NOV 82	
1981-028AL		13229	USSR	20 MAR	16 FEB 89	
1981-028AM		13230	USSR	20 MAR	17 JUN 82	
1981-028AN		13231	USSR	20 MAR	19 AUG 82	
1981-028AP		13232	USSR	20 MAR	15 OCT 82	
1981-028AQ		13233	USSR	20 MAR	08 DEC 82	
1981-028AR		13234	USSR	20 MAR	25 AUG 82	
1981-028AS		13235	USSR	20 MAR	17 OCT 82	
1981-028AT		13236	USSR	20 MAR	28 SEP 82	
1981-028AU		13442	USSR	20 MAR	20 OCT 90	
1981-028AV		13443	USSR	20 MAR	29 MAR 90	
1981-028AW		13444	USSR	20 MAR	02 JAN 83	
1981-028AX		13445	USSR	20 MAR	11 NOV 82	
1981-028AY		13620	USSR	20 MAR	30 JAN 89	
1981-028AZ		13621	USSR	20 MAR	01 JAN 89	
1981-028BA		13622	USSR	20 MAR	23 SEP 88	
1981-028BB		13623	USSR	20 MAR	12 FEB 90	
1981-028BC		13635	USSR	20 MAR	13 FEB 83	
1981-028BD		13681	USSR	20 MAR	21 JAN 92	
1981-028BE		13689	USSR	20 MAR	04 FEB 91	
1981-028BF		13690	USSR	20 MAR	18 MAR 90	
1981-028BG		13691	USSR	20 MAR	04 OCT 84	
1981-028BH		13781	USSR	24 MAR	04 AUG 89	
1981-028BJ		13918	USSR	20 MAR	04 JUN 89	
1981-028BK		13919	USSR	20 MAR	13 NOV 89	
1981-028BL		13920	USSR	20 MAR	11 OCT 89	
1981-028BM		13921	USSR	20 MAR	06 JAN 90	
1981-028BN		13922	USSR	20 MAR	31 DEC 90	
1981-028BP		14220	USSR	20 MAR	16 OCT 89	
1981-028BQ		14221	USSR	20 MAR	04 FEB 91	
1981-028BR		14437	USSR	20 MAR	24 JAN 89	
1981-028BS		14438	USSR	20 MAR	12 OCT 88	
1981-028BT		14924	USSR	20 MAR	19 SEP 86	
1981-028BU		17671	USSR	20 MAR	26 DEC 89	
1981-028BV		18542	USSR	22 MAY	12 DEC 88	
1981-028BW		12366	USSR	22 MAR	30 MAR 81	
1981-029A		12367	USSR	22 MAR	25 MAR 81	
1981-029B						

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981-030A	MOLNIYA 3-15	12368	USSR	24 MAR	19 OCT 92	
1981-030B		12369	USSR	24 MAR	13 APR 81	
1981-030C		12370	USSR	24 MAR	12 APR 81	
1981-030D		12383	USSR	24 MAR	29 JUN 93	
1981-031B	COSMOS 1262	12377	USSR	31 MAR	17 APR 81	
1981-031C		12378	USSR	31 MAR	15 APR 81	
1981-032A		12385	USSR	07 APR	21 APR 81	
1981-032B		12386	USSR	07 APR	13 APR 81	
1981-032C	STS 1 COSMOS 1264	12387	USSR	07 APR	20 APR 81	
1981-032D		12410	USSR	07 APR	23 APR 81	
1981-032E		12411	USSR	07 APR	28 APR 81	
1981-032F		12417	USSR	07 APR	24 APR 81	
1981-034A	COSMOS 1265	12399	US	12 APR	14 APR 81	
1981-035A		12400	USSR	15 APR	29 APR 81	
1981-035B		12401	USSR	15 APR	23 APR 81	
1981-035C		12430	USSR	15 APR	24 OCT 81	
1981-035D	COSMOS 1267	12431	USSR	15 APR	08 JUN 81	
1981-035E		12432	USSR	15 APR	04 MAY 81	
1981-035F		12433	USSR	15 APR	30 APR 81	
1981-036A		12402	USSR	16 APR	28 APR 81	
1981-036B	COSMOS 1268	12403	USSR	16 APR	19 APR 81	
1981-036C		12425	USSR	16 APR	15 MAY 81	
1981-036D		12426	USSR	16 APR	01 MAY 81	
1981-036F		12428	USSR	16 APR	19 MAR 82	
1981-037B	COSMOS 1269	12429	USSR	21 APR	20 MAY 81	
1981-037C		12434	USSR	21 APR	01 MAY 81	
1981-039A		12419	USSR	25 APR	29 JUL 82	
1981-039B		12420	USSR	25 APR	28 APR 81	
1981-039C	COSMOS 1270	12421	USSR	25 APR	28 APR 81	
1981-039D		12475	USSR	25 APR	26 MAY 81	
1981-040A		12423	USSR	28 APR	12 MAY 81	
1981-040B		12424	USSR	28 APR	06 MAY 81	
1981-040C	SDYUZ 40	12448	USSR	28 APR	20 MAY 81	
1981-040D		12449	USSR	28 APR	14 MAY 81	
1981-040E		12450	USSR	28 APR	15 MAY 81	
1981-040F		12451	USSR	28 APR	15 MAY 81	
1981-040G	COSMOS 1272	12452	USSR	28 APR	14 MAY 81	
1981-042A		12454	USSR	14 MAY	22 MAY 81	
1981-042B		12455	USSR	14 MAY	16 MAY 81	
1981-044B		12460	US	15 MAY	17 APR 82	
1981-044C	COSMOS 1277	12944	US	15 MAY	08 DEC 81	
1981-045A		12461	USSR	18 MAY	17 JUN 81	
1981-045B		12462	USSR	18 MAY	21 MAY 81	
1981-045C		12463	USSR	18 MAY	19 MAY 81	
1981-047A	COSMOS 1272	12466	USSR	21 MAY	04 JUN 81	
1981-047B		12467	USSR	21 MAY	31 MAY 81	
1981-047C		12468	USSR	21 MAY	23 MAY 81	
1981-047D		12498	USSR	21 MAY	24 NOV 81	
1981-047E	COSMOS 1272	12499	USSR	21 MAY	09 JUN 81	
1981-047F		12505	USSR	21 MAY	08 JUL 81	
1981-047G		12506	USSR	21 MAY	06 JUL 81	
1981-047H		12507	USSR	21 MAY	05 AUG 81	

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DECAYED OBJECTS

INTER - NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981-048A		COSMOS 1273	12469	USSR	22 MAY	04 JUN 81	
1981-048B			12470	USSR	22 MAY	25 MAY 81	
1981-048C			12500	USSR	22 MAY	05 JUN 81	
1981-048D			12501	USSR	22 MAY	11 JUN 81	
1981-048E			12502	USSR	22 MAY	06 JUN 81	
1981-048F			12503	USSR	22 MAY	06 JUN 81	
1981-049B			12473	US	22 MAY	08 SEP 81	
1981-049C			12494	US	22 MAY	15 APR 82	
1981-051A	ROHINI 2		12491	INDIA	31 MAY	08 JUN 81	
1981-051B			12492	INDIA	31 MAY	06 JUN 81	
1981-052A			12495	USSR	03 JUN	03 JUL 81	
1981-052B	COSMOS 1274		12496	USSR	03 JUN	07 JUN 81	
1981-052C			12579	USSR	03 JUN	08 JUL 81	
1981-053AH			12689	USSR	04 JUN	04 MAR 91	
1981-053BN			12721	USSR	04 JUN	28 NOV 89	
1981-053BZ			12732	USSR	04 JUN	03 AUG 82	
1981-053CB			12734	USSR	04 JUN	04 NOV 91	
1981-053CF			12734	USSR	04 JUN	12 SEP 89	
1981-053CX			12754	USSR	04 JUN	03 AUG 83	
1981-053DE			12761	USSR	04 JUN	16 MAR 90	
1981-053DF			12762	USSR	04 JUN	04 NOV 81	
1981-053DU			12765	USSR	04 JUN	12 APR 88	
1981-053DT			12774	USSR	04 JUN	07 OCT 91	
1981-053EF			12914	USSR	04 JUN	29 OCT 81	
1981-053FH			12951	USSR	04 JUN	19 JUN 92	
1981-053EL			12965	USSR	04 JUN	01 FEB 91	
1981-053EN			13015	USSR	04 JUN	24 MAR 91	
1981-053FH			13461	USSR	04 JUN	21 MAR 90	
1981-053FK			13463	USSR	04 JUN	16 MAR 90	
1981-053GS			13760	USSR	04 JUN	09 NOV 91	
1981-053HV			14359	USSR	04 JUN	07 JUL 89	
1981-053HZ			14362	USSR	04 JUN	13 MAR 92	
1981-053JB			14363	USSR	04 JUN	20 AUG 89	
1981-053JC			14399	USSR	04 JUN	03 FEB 92	
1981-053JU			14400	USSR	04 JUN	14 MAR 90	
1981-053JU			14439	USSR	04 JUN	14 JAN 93	
1981-053US			14626	USSR	04 JUN	10 MAY 85	
1981-053UW			14628	USSR	04 JUN	25 JAN 88	
1981-053LV			14630	USSR	04 JUN	06 NOV 88	
1981-053LX			18499	USSR	04 JUN	27 APR 92	
1981-053MD			18516	USSR	04 JUN	26 FEB 89	
1981-054B			18638	USSR	09 JUN	11 SEP 89	
1981-054C			12513	USSR	09 JUN	27 JUN 81	
1981-054D			12515	USSR	09 JUN	23 JUN 81	
1981-055A	COSMOS 1276		12517	USSR	16 JUN	22 JUN 81	
1981-055B			12518	USSR	16 JUN	29 JUN 81	
1981-055C			12567	USSR	16 JUN	19 JUN 81	
1981-055D			12568	USSR	16 JUN	06 JUL 81	
1981-055E			12569	USSR	16 JUN	30 JUN 81	
1981-055F			12570	USSR	16 JUN	01 JUL 81	
1981-056A	COSMOS 1277		12520	USSR	17 JUN	01 JUL 81	



INTER - NATIONAL DESIGNATION		NAME	DECAYED OBJECTS		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981-0568					12521	USSR	17 JUN	28 JUN 81	
1981-056C					12522	USSR	17 JUN	22 JUN 81	
1981-056D					12523	USSR	17 JUN	28 JUN 81	
1981-056E					12524	USSR	17 JUN	29 JUN 81	
1981-056F					12525	USSR	17 JUN	22 JUN 81	
1981-056G					12526	USSR	17 JUN	23 JUN 81	
1981-056H					12573	USSR	17 JUN	31 JUL 81	
1981-056J					12574	USSR	17 JUN	12 DEC 81	
1981-056K					12575	USSR	17 JUN	28 AUG 81	
1981-057D					12562	ESA	19 JUN	23 JUN 92	
1981-057E					14125	ESA	19 JUN	17 JAN 91	
1981-058B					12548	USSR	19 JUN	28 JUL 81	
1981-058C					12549	USSR	19 JUN	29 JUL 81	
1981-060A					12556	USSR	24 JUN	14 DEC 91	
1981-060B					12557	USSR	24 JUN	05 AUG 81	
1981-060C					12558	USSR	24 JUN	22 JUL 81	
1981-060D					12563	USSR	24 JUN	27 MAR 92	
1981-061B					12565	USSR	25 JUN	26 JUN 81	
1981-061C					12566	USSR	25 JUN	28 JUN 81	
1981-061D					12603	USSR	26 JUN	15 APR 82	
1981-061E					12604	USSR	26 JUN	12 SEP 83	
1981-062A					12571	USSR	01 JUL	15 JUL 81	
1981-062B					12572	USSR	01 JUL	14 JUL 81	
1981-062C					12576	USSR	01 JUL	02 JUL 81	
1981-062D					12590	USSR	01 JUL	20 DEC 81	
1981-062E					12591	USSR	01 JUL	07 SEP 81	
1981-062F					12592	USSR	01 JUL	16 JUL 81	
1981-062G					12593	USSR	01 JUL	22 AUG 81	
1981-063A					12577	USSR	02 JUL	15 JUL 81	
1981-063B					12578	USSR	02 JUL	08 JUL 81	
1981-063C					12594	USSR	02 JUL	02 AUG 81	
1981-063D					12595	USSR	02 JUL	10 AUG 81	
1981-063E					12596	USSR	02 JUL	22 JUL 81	
1981-063F					12597	USSR	02 JUL	22 JUL 81	
1981-064A					12583	USSR	07 JUL	21 JUL 81	
1981-064B					12584	USSR	07 JUL	17 JUL 81	
1981-064C					12600	USSR	07 JUL	20 AUG 81	
1981-064D					12601	USSR	07 JUL	06 SEP 81	
1981-064E					12602	USSR	07 JUL	09 DEC 81	
1981-065C					12587	USSR	10 JUL	07 OCT 81	
1981-065D					19236	USSR	10 JUL	16 APR 90	
1981-066A					12588	USSR	15 JUL	14 AUG 81	
1981-066B					12589	USSR	15 JUL	19 JUL 81	
1981-067A					12598	USSR	17 JUL	31 JUL 81	
1981-067B					12599	USSR	17 JUL	19 JUL 81	
1981-067C					12621	USSR	17 JUL	05 AUG 81	
1981-067D					12622	USSR	17 JUL	08 OCT 81	
1981-067E					12623	USSR	17 JUL	21 AUG 81	
1981-068A					12614	USSR	29 JUL	12 AUG 81	
1981-068B					12617	USSR	29 JUL	31 JUL 81	
1981-068C					12683	USSR	29 JUL	16 OCT 81	
1981-068D					12684	USSR	29 JUL	29 AUG 81	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981-068E			12685	USSR	29 JUL	16 AUG 81	
1981-068F			12686	USSR	29 JUL	06 SEP 81	
1981-069B			12619	USSR	30 JUL	01 AUG 81	
1981-069C			12620	USSR	30 JUL	31 JUL 81	
1981-069D			12633	USSR	30 JUL	20 APR 82	
1981-069E			12634	USSR	30 JUL	15 APR 82	
1981-070B		DE 2	12625	US	03 AUG	19 FEB 83	
1981-070C			12626	US	03 AUG	23 NOV 88	
1981-070D			12628	US	03 AUG	17 MAR 82	
1981-070F			12945	US	03 AUG	03 AUG 81	
1981-070G			12945	US	03 AUG	25 JAN 82	
1981-070H			12946	US	03 AUG	16 FEB 82	
1981-071B			12629	USSR	04 AUG	26 AUG 81	
1981-071C			12630	USSR	04 AUG	01 SEP 81	
1981-072A		COSMOS 1286	12631	USSR	04 AUG	16 OCT 82	
1981-072B			12632	USSR	04 AUG	04 AUG 81	
1981-072C			13601	USSR	04 AUG	22 OCT 82	
1981-073B			12778	US	06 AUG	16 APR 83	
1981-076B			12678	US	10 AUG	24 AUG 81	
1981-076C			12810	JAPAN	10 AUG	23 NOV 90	
1981-078A		COSMOS 1296	12687	USSR	13 AUG	13 SEP 81	
1981-078B			12688	USSR	13 AUG	17 AUG 81	
1981-079A		COSMOS 1297	12716	USSR	18 AUG	30 AUG 81	
1981-079B			12717	USSR	18 AUG	25 AUG 81	
1981-079C			12718	USSR	18 AUG	19 AUG 81	
1981-079D			12794	USSR	18 AUG	05 SEP 81	
1981-079E			12795	USSR	18 AUG	31 AUG 81	
1981-079F			12796	USSR	18 AUG	02 SEP 81	
1981-079G			12797	USSR	18 AUG	31 AUG 81	
1981-080A		COSMOS 1298	12776	USSR	21 AUG	02 OCT 81	
1981-080B			12777	USSR	21 AUG	24 AUG 81	
1981-081B			12784	USSR	24 AUG	17 NOV 81	
1981-081C			12807	USSR	24 AUG	07 SEP 81	
1981-081D			12808	USSR	24 AUG	02 FEB 89	
1981-081E			12809	USSR	24 AUG	27 SEP 81	
1981-083A		COSMOS 1301	12788	USSR	27 AUG	10 SEP 81	
1981-083B			12789	USSR	27 AUG	31 AUG 81	
1981-083C			12790	USSR	27 AUG	02 SEP 81	
1981-083D			12811	USSR	27 AUG	24 SEP 81	
1981-083E			12812	USSR	27 AUG	17 SEP 81	
1981-083F			12813	USSR	27 AUG	09 NOV 81	
1981-085A			12799	US	03 SEP	23 NOV 84	
1981-085B			12800	US	03 SEP	12 OCT 81	
1981-086A		COSMOS 1303	12801	USSR	04 SEP	18 SEP 81	
1981-086B			12802	USSR	04 SEP	12 SEP 81	
1981-086C			12805	USSR	04 SEP	05 SEP 81	
1981-086D			12806	USSR	04 SEP	05 SEP 81	
1981-086E			12839	USSR	04 SEP	09 OCT 81	
1981-086F			12840	USSR	04 SEP	25 OCT 81	
1981-086G			12841	USSR	04 SEP	06 FEB 82	
1981-088B			12819	USSR	11 SEP	05 OCT 81	
1981-088C			12820	USSR	11 SEP	03 OCT 81	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DEATH	NOTES
1981-088D		12821	USSR	11 SEP	13 JAN 82	
1981-088E		12822	USSR	11 SEP	04 DEC 81	
1981-089A	COSMOS 1306	12828	USSR	14 SEP	16 JUL 82	
1981-089B		12829	USSR	14 SEP	15 SEP 81	
1981-089C		13369	USSR	14 SEP	12 DEC 82	
1981-089D		13387	USSR	14 SEP	11 OCT 82	
1981-089E		13393	USSR	14 SEP	01 MAY 83	
1981-089F		13404	USSR	14 SEP	07 MAR 89	
1981-089G		13408	USSR	14 SEP	19 AUG 82	
1981-089H		13588	USSR	14 SEP	06 DEC 82	
1981-089J		14837	USSR	14 SEP	08 APR 89	
1981-090A	COSMOS 1307	12830	USSR	15 SEP	28 SEP 81	
1981-090B		12831	USSR	15 SEP	23 SEP 81	
1981-090C		12832	USSR	15 SEP	16 SEP 81	
1981-090D		12873	USSR	15 SEP	04 JAN 82	
1981-090E		12875	USSR	15 SEP	30 SEP 81	
1981-090F		12876	USSR	15 SEP	04 NOV 81	
1981-090G		12877	USSR	15 SEP	04 FEB 82	
1981-090H		12878	USSR	15 SEP	23 OCT 81	
1981-092A	COSMOS 1309	12837	USSR	18 SEP	01 OCT 81	
1981-092B		12838	USSR	18 SEP	21 SEP 81	
1981-093A	PRC 9A	12842	PRC	19 SEP	26 SEP 81	
1981-093B	PRC 9B	12843	PRC	19 SEP	06 OCT 82	
1981-093C		12844	PRC	19 SEP	22 NOV 81	
1981-093D	PRC 9C	12845	PRC	19 SEP	17 AUG 82	
1981-093E		12846	PRC	19 SEP	10 APR 83	
1981-093F		12847	PRC	19 SEP	25 NOV 81	
1981-093G		12884	PRC	19 SEP	22 MAY 82	
1981-093H		12885	PRC	19 SEP	20 MAY 82	
1981-093J		12890	PRC	19 SEP	20 OCT 81	
1981-093K		12958	PRC	19 SEP	16 NOV 81	
1981-095A	COSMOS 1310	12852	USSR	23 SEP	03 APR 89	
1981-095B		12853	USSR	23 SEP	17 SEP 83	
1981-096B		12874	US	24 SEP	15 APR 82	
1981-097A	COSMOS 1311	12871	USSR	28 SEP	28 AUG 83	
1981-097B		12872	USSR	28 SEP	16 FEB 83	
1981-097C		13054	USSR	28 SEP	27 FEB 82	
1981-097D		13055	USSR	28 SEP	26 FEB 82	
1981-097E		13667	USSR	28 SEP	05 DEC 82	
1981-097F		13668	USSR	28 SEP	05 DEC 82	
1981-097G		13694	USSR	28 SEP	17 DEC 82	
1981-097H		13695	USSR	28 SEP	16 DEC 82	
1981-097J		13723	USSR	28 SEP	22 DEC 82	
1981-097K		13724	USSR	28 SEP	23 DEC 82	
1981-097L		13729	USSR	28 SEP	24 DEC 82	
1981-097M		13731	USSR	28 SEP	18 DEC 82	
1981-097N		13732	USSR	28 SEP	17 DEC 82	
1981-097P		13733	USSR	28 SEP	17 DEC 82	
1981-097Q		13734	USSR	28 SEP	16 DEC 82	
1981-097R		13735	USSR	28 SEP	31 DEC 82	
1981-097S		13743	USSR	28 SEP	31 DEC 82	
1981-097T		13744	USSR	28 SEP	31 DEC 82	

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1981-097U			13820	USSR	28 SEP	28 FEB 83	
1981-097V			13821	USSR	28 SEP	28 FEB 83	
1981-097W			13822	USSR	28 SEP	28 FEB 83	
1981-097X			13823	USSR	28 SEP	28 FEB 83	
1981-097Y			13824	USSR	28 SEP	28 FEB 83	
1981-097Z			13828	USSR	28 SEP	28 FEB 83	
1981-097AA			13831	USSR	28 SEP	28 FEB 83	
1981-097AB			13832	USSR	28 SEP	28 FEB 83	
1981-099A	COSMOS 1313		12881	USSR	01 OCT	15 OCT 81	
1981-099B			12882	USSR	01 OCT	05 OCT 81	
1981-099C			12883	USSR	01 OCT	02 OCT 81	
1981-099D			12910	USSR	01 OCT	16 OCT 81	
1981-099E			12911	USSR	01 OCT	16 OCT 81	
1981-099F			12912	USSR	01 OCT	26 OCT 81	
1981-100A	SME		12887	US	06 OCT	05 MAR 91	
1981-100B	UOSAT		12888	UK	06 OCT	13 OCT 89	
1981-100D			12891	US	06 OCT	14 NOV 81	
1981-100E			13405	US	06 OCT	19 OCT 82	
1981-101A	COSMOS 1314		12895	USSR	09 OCT	22 OCT 81	
1981-101B			12896	USSR	09 OCT	11 OCT 81	
1981-101C			12900	USSR	09 OCT	09 NOV 81	
1981-101D			12921	USSR	09 OCT	25 OCT 81	
1981-101E			12922	USSR	09 OCT	25 OCT 81	
1981-101F			12923	USSR	09 OCT	25 OCT 81	
1981-102B			12898	USSR	09 OCT	11 OCT 81	
1981-102C			12899	USSR	09 OCT	10 OCT 81	
1981-102D			12901	USSR	09 OCT	01 JUL 82	
1981-102E			12902	USSR	09 OCT	13 MAY 82	
1981-104A	COSMOS 1316		12905	USSR	15 OCT	29 OCT 81	
1981-104B			12913	USSR	15 OCT	23 OCT 81	
1981-104C			12924	USSR	15 OCT	08 NOV 81	
1981-104D			12925	USSR	15 OCT	31 OCT 81	
1981-104E			12926	USSR	15 OCT	31 OCT 81	
1981-105B			12916	USSR	17 OCT	04 NOV 81	
1981-105C			12917	USSR	17 OCT	06 NOV 81	
1981-105D			12918	USSR	17 OCT	08 NOV 81	
1981-106B			12928	USSR	30 OCT	31 OCT 81	
1981-106C			12929	USSR	30 OCT	31 OCT 81	
1981-106D			15599	USSR	30 OCT	01 MAR 82	
1981-107B			12931	US	31 OCT	02 NOV 81	
1981-108B			12934	USSR	31 OCT	23 NOV 81	
1981-108C			12935	USSR	31 OCT	14 NOV 81	
1981-109A	COSMOS 1318		12936	USSR	03 NOV	04 DEC 81	
1981-109B			12937	USSR	03 NOV	06 NOV 81	
1981-110B			12939	USSR	04 NOV	05 NOV 81	
1981-110C			12941	USSR	04 NOV	05 NOV 81	
1981-110D			15600	USSR	04 NOV	05 MAR 82	
1981-111A	STS 2		12953	US	12 NOV	14 NOV 81	
1981-112A	COSMOS 1319		12954	USSR	13 NOV	27 NOV 81	
1981-112B			12955	USSR	13 NOV	22 NOV 81	
1981-112C			12956	USSR	13 NOV	16 NOV 81	
1981-112D			12957	USSR	13 NOV	13 NOV 81	

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1981-112E		12970	USSR	13 NOV	13 DEC 81	
1981-112F		12971	USSR	13 NOV	15 APR 82	
1981-112G		12972	USSR	13 NOV	02 JAN 82	
1981-112H		12973	USSR	13 NOV	27 DEC 81	
1981-112J		12974	USSR	13 NOV	08 DEC 81	
1981-113A	MOLNIYA 1-51	12959	USSR	17 NOV	02 NOV 93	
1981-113B		12960	USSR	17 NOV	27 NOV 81	
1981-113C		12961	USSR	17 NOV	29 NOV 81	
1981-114B		13098	US	20 NOV	26 FEB 89	
1981-115A	BHASKARA 2	12968	INDIA	20 NOV	30 NOV 91	
1981-115B		12969	USSR	20 NOV	08 OCT 89	
1981-118A	COSMOS 1329	12989	USSR	04 DEC	18 DEC 81	
1981-118B		12990	USSR	04 DEC	08 DEC 81	
1981-118C		12991	USSR	04 DEC	10 DEC 81	
1981-118D		13004	USSR	04 DEC	05 JAN 82	
1981-118E		13005	USSR	04 DEC	20 DEC 81	
1981-118F		13006	USSR	04 DEC	22 DEC 81	
1981-121A	COSMOS 1330	13008	USSR	19 DEC	19 JAN 82	
1981-121B		13009	USSR	19 DEC	23 DEC 81	
1981-122C		13025	ESA	20 DEC	21 NOV 88	
1981-123B		13013	USSR	23 DEC	16 JAN 82	
1981-123C		13014	USSR	23 DEC	10 JAN 82	

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1982-002A	COSMOS 1332	13031	USSR	12 JAN	25 JAN 82	
1982-002B		13032	USSR	12 JAN	16 JAN 82	
1982-004B		13088	US	16 JAN	02 NOV 88	
1982-005A	COSMOS 1334	13036	USSR	20 JAN	03 FEB 82	
1982-005B		13037	USSR	20 JAN	24 JAN 82	
1982-005C		13038	USSR	20 JAN	22 JAN 82	
1982-005D		13039	USSR	20 JAN	20 JAN 82	
1982-005E		13048	USSR	20 JAN	04 FEB 82	
1982-005F		13049	USSR	20 JAN	06 FEB 82	
1982-005G		13050	USSR	20 JAN	17 FEB 82	
1982-005H		13051	USSR	20 JAN	06 FEB 82	
1982-005J		13052	USSR	20 JAN	05 FEB 82	
1982-006A		13040	US	21 JAN	23 MAY 82	
1982-006B		13041	US	21 JAN	22 JAN 82	
1982-007A	COSMOS 1335	13042	USSR	29 JAN	05 APR 87	
1982-007B		13043	USSR	29 JAN	24 NOV 85	
1982-007C		13044	USSR	29 JAN	30 JAN 82	
1982-007D		13140	USSR	29 JAN	15 JUN 82	
1982-007E		13141	USSR	29 JAN	11 JUN 82	
1982-007F		13246	USSR	29 JAN	17 AUG 82	
1982-007G		13247	USSR	29 JAN	14 AUG 82	
1982-007H		13248	USSR	29 JAN	11 AUG 82	
1982-007J		13249	USSR	29 JAN	01 AUG 82	
1982-007K		13250	USSR	29 JAN	29 JUL 82	
1982-007L		13251	USSR	29 JAN	26 JUL 82	
1982-007M		13252	USSR	29 JAN	24 JUL 82	
1982-007N		13273	USSR	29 JAN	07 JUL 82	

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INTER- NATIONAL DESIGNATION							DECEASED OBJECTS	
NAME		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES		
1982-007P	COSMOS 1336	13419	USSR	29 JAN	05 OCT 82			
1982-007Q		13420	USSR	29 JAN	05 OCT 82			
1982-007R		13421	USSR	29 JAN	29 SEP 82			
1982-007S		13422	USSR	29 JAN	28 SEP 82			
1982-007T		13429	USSR	29 JAN	04 OCT 82			
1982-007U		13430	USSR	29 JAN	04 OCT 82			
1982-007V		14052	USSR	29 JAN	11 JUN 83			
1982-007W		14053	USSR	29 JAN	10 JUN 83			
1982-007X		14054	USSR	29 JAN	11 JUN 83			
1982-007Y		14055	USSR	29 JAN	09 JUN 83			
1982-007Z	COSMOS 1337	14056	USSR	29 JAN	09 JUN 83			
1982-007AA		14068	USSR	29 JAN	09 JUN 83			
1982-008A		13045	USSR	30 JAN	26 FEB 82			
1982-008B		13046	USSR	29 JAN	02 FEB 82			
1982-008C		13047	USSR	29 JAN	31 JAN 82			
1982-008D		13057	USSR	05 FEB	07 FEB 82			
1982-009C		13058	USSR	05 FEB	06 FEB 82			
1982-009D		13059	USSR	05 FEB	07 SEP 91			
1982-009E		13060	USSR	05 FEB	26 NOV 84			
1982-010A		COSMOS 1338	13061	USSR	11 FEB	25 JUL 82		
1982-010B	13062		USSR	11 FEB	11 FEB 82			
1982-011A	13063		USSR	16 FEB	02 MAR 82			
1982-011B	13064		USSR	16 FEB	24 FEB 82			
1982-011C	13076		USSR	16 FEB	21 MAR 82			
1982-011D	13077		USSR	16 FEB	27 SEP 82			
1982-011E	13078		USSR	16 FEB	06 APR 82			
1982-011F	13079		USSR	16 FEB	19 MAR 82			
1982-014B	13136		US	26 FEB	31 AUG 89			
1982-015B	COSMOS 1342	13071	USSR	26 FEB	08 MAR 82			
1982-015C		13072	USSR	26 FEB	13 MAR 82			
1982-016B		13081	USSR	03 MAR	27 MAR 82			
1982-016C		13082	USSR	03 MAR	16 MAR 82			
1982-017B		13087	US	05 MAR	06 MAY 83			
1982-018A		13084	USSR	05 MAR	19 MAR 82			
1982-018B		13085	USSR	05 MAR	09 MAR 82			
1982-018C		13100	USSR	05 MAR	21 MAR 82			
1982-018D		13101	USSR	05 MAR	22 MAR 82			
1982-018E		13102	USSR	05 MAR	01 APR 82			
1982-020B	COSMOS 1343	13093	USSR	15 MAR	16 MAR 82			
1982-020C		13094	USSR	15 MAR	16 MAR 82			
1982-020D		13095	USSR	15 MAR	16 MAR 82			
1982-020E		13099	USSR	15 MAR	14 SEP 83			
1982-021A		13096	USSR	17 MAR	31 MAR 82			
1982-021B		13097	USSR	17 MAR	21 MAR 82			
1982-021C		13115	USSR	17 MAR	05 APR 82			
1982-021D		13116	USSR	17 MAR	01 APR 82			
1982-021E		13117	USSR	17 MAR	01 APR 82			
1982-022A	STS 3 MOLNIYA 3-18	13106	US	22 MAR	30 MAR 82			
1982-023A		13107	USSR	24 MAR	23 JUN 92			
1982-023B		13108	USSR	24 MAR	12 APR 82			
1982-023C		13109	USSR	24 MAR	19 APR 82			
1982-023D		13112	USSR	24 MAR	17 SEP 92			

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-026A	COSMOS 1345	13118	USSR	31 MAR	27 SEP 89	
1982-026B		13119	USSR	31 MAR	10 AUG 89	
1982-028A	COSMOS 1347	13122	USSR	02 APR	21 MAY 82	
1982-028B		13123	USSR	02 APR	05 APR 82	
1982-029B		13125	USSR	07 APR	05 MAY 82	
1982-029C		13126	USSR	07 APR	27 APR 82	
1982-031B		13137	US	10 APR	18 APR 84	
1982-032A	COSMOS 1350	13134	USSR	15 APR	16 MAY 82	
1982-032B		13135	USSR	15 APR	18 APR 82	
1982-033A	SALYUT 7	13138	USSR	19 APR	07 FEB 91	BX*
1982-033B		13139	USSR	19 APR	24 APR 82	BX*
1982-033C	ISKRA 2	13176	USSR	17 MAY	09 JUL 82	
1982-033D		13204	USSR	19 APR	20 JUN 82	
1982-033E		13270	USSR	19 APR	24 JUN 82	
1982-033F		13274	USSR	19 APR	27 JUN 82	
1982-033G		13275	USSR	19 APR	27 JUN 82	
1982-033H		13287	USSR	19 APR	02 JUL 82	
1982-033J		13291	USSR	19 APR	09 JUL 82	
1982-033K		13299	USSR	19 APR	12 JUL 82	
1982-033L		13332	USSR	19 APR	11 AUG 82	
1982-033M		13398	USSR	19 APR	21 AUG 82	
1982-033N		13409	USSR	19 APR	25 AUG 82	
1982-033P		13410	USSR	19 APR	13 AUG 82	
1982-033Q		13417	USSR	19 APR	01 SEP 82	
1982-033R		13418	USSR	19 APR	24 AUG 82	
1982-033S		13423	USSR	19 APR	31 AUG 82	
1982-033T		13424	USSR	19 APR	02 SEP 82	
1982-033U		13435	USSR	19 APR	29 AUG 82	
1982-033V		13436	USSR	19 APR	07 OCT 82	
1982-033W		13439	USSR	19 APR	06 SEP 82	
1982-033X		13440	USSR	19 APR	27 SEP 82	
1982-033Y		13522	USSR	19 APR	03 OCT 82	
1982-033Z		13523	USSR	19 APR	02 OCT 82	
1982-033AA		13541	USSR	19 APR	01 OCT 82	
1982-033AB		13560	USSR	19 APR	04 OCT 82	
1982-033AC		13596	USSR	19 APR	28 OCT 82	
1982-033AD	ISKRA 3	13663	USSR	18 NOV	16 DEC 82	
1982-033AE		13664	USSR	19 APR	28 DEC 82	
1982-033AF		13700	USSR	19 APR	26 MAR 83	
1982-033AG		14386	USSR	19 APR	16 NOV 83	
1982-033AH		14387	USSR	19 APR	19 FEB 84	
1982-033AI		14388	USSR	19 APR	01 NOV 83	
1982-033AJ		14392	USSR	19 APR	15 MAR 84	
1982-033AK		14393	USSR	19 APR	29 OCT 83	
1982-033AL		14485	USSR	19 APR	17 NOV 83	
1982-033AM		14486	USSR	19 APR	18 NOV 83	
1982-033AN		14487	USSR	19 APR	17 NOV 83	
1982-033AP		14507	USSR	19 APR	24 DEC 83	
1982-033AQ		14508	USSR	19 APR	04 DEC 83	
1982-033AR		14508	USSR	19 APR	29 MAR 84	
1982-033AS		14857	USSR	19 APR	27 MAR 84	
1982-033AT		14858	USSR	19 APR	04 APR 84	
1982-033AU		14859	USSR	19 APR	04 APR 84	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-033AV		14860	USSR	19 APR	03 APR 84	
1982-033AW		14861	USSR	19 APR	11 APR 84	
1982-033AX		14862	USSR	19 APR	13 APR 84	
1982-033AY		14863	USSR	19 APR	03 APR 84	
1982-033AZ		14864	USSR	19 APR	14 APR 84	
1982-033BA		14870	USSR	19 APR	27 APR 84	
1982-033BB		14871	USSR	19 APR	15 APR 84	
1982-033BC		14946	USSR	19 APR	17 MAY 84	
1982-033BD		14949	USSR	19 APR	16 JUN 84	
1982-033BE		14957	USSR	19 APR	13 MAY 84	
1982-033BF		14958	USSR	19 APR	14 MAY 84	
1982-033BG		14960	USSR	19 APR	21 JUN 84	
1982-033BH		14975	USSR	19 APR	24 MAY 84	
1982-033BJ		14976	USSR	19 APR	26 MAY 84	
1982-033BK		14995	USSR	19 APR	01 JUN 84	
1982-033BL		15105	USSR	19 APR	07 AUG 84	
1982-033BM		15106	USSR	19 APR	18 AUG 84	
1982-033BN		15107	USSR	19 APR	16 AUG 84	
1982-033BP		15109	USSR	19 APR	27 JUL 84	
1982-033BQ		15111	USSR	19 APR	30 JUL 84	
1982-033BR		15112	USSR	19 APR	31 AUG 84	
1982-033BS		15113	USSR	19 APR	26 AUG 84	
1982-033BT		15114	USSR	19 APR	13 OCT 84	
1982-033BU		15127	USSR	19 APR	09 AUG 84	
1982-033BV		15128	USSR	19 APR	09 OCT 84	
1982-033BW		15129	USSR	19 APR	22 SEP 84	
1982-033BX		15130	USSR	19 APR	18 AUG 84	
1982-033BY		15133	USSR	19 APR	04 AUG 84	
1982-033BZ		15134	USSR	19 APR	27 SEP 84	
1982-033CA		15135	USSR	19 APR	08 OCT 84	
1982-033CB		15137	USSR	19 APR	18 AUG 84	
1982-033CC		15138	USSR	19 APR	14 SEP 84	
1982-033CD		15174	USSR	19 APR	06 DEC 84	
1982-033CE		15175	USSR	19 APR	22 SEP 84	
1982-033CF		15176	USSR	19 APR	13 OCT 84	
1982-033CG		15177	USSR	19 APR	18 OCT 84	
1982-033CH		15189	USSR	19 APR	21 MAY 86	
1982-033CI		15190	USSR	19 APR	12 NOV 84	
1982-033CJ		15192	USSR	19 APR	04 OCT 84	
1982-033CK		15195	USSR	19 APR	03 OCT 84	
1982-033CL		15196	USSR	19 APR	05 DEC 84	
1982-033CM		15207	USSR	19 APR	25 OCT 84	
1982-033CN		15208	USSR	19 APR	15 SEP 84	
1982-033CP		15209	USSR	19 APR	06 OCT 84	
1982-033CQ		15210	USSR	19 APR	21 SEP 84	
1982-033CR		15211	USSR	19 APR	08 OCT 84	
1982-033CS		15212	USSR	19 APR	08 SEP 84	
1982-033CT		15213	USSR	19 APR	19 SEP 84	
1982-033CU		15217	USSR	19 APR	13 MAY 86	
1982-033CV		15218	USSR	19 APR	12 DEC 84	
1982-033CW		15247	USSR			
1982-033CX		15248	USSR			
1982-033CY						



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-033CZ		15249	USSR	19 APR	26 DEC 84	
1982-033DA		15250	USSR	19 APR	12 DEC 84	
1982-033DB		15251	USSR	19 APR	16 OCT 84	
1982-033DC		15252	USSR	19 APR	08 DEC 84	
1982-033DD		15253	USSR	19 APR	25 SEP 84	
1982-033DE		15254	USSR	19 APR	10 NOV 84	
1982-033DF		15255	USSR	19 APR	01 NOV 84	
1982-033DG		15256	USSR	19 APR	08 DEC 84	
1982-033DH		15273	USSR	19 APR	03 OCT 84	
1982-033DJ		15274	USSR	19 APR	24 DEC 84	
1982-033DK		15275	USSR	19 APR	11 DEC 84	
1982-033DL		15276	USSR	19 APR	29 NOV 84	
1982-033DM		15281	USSR	19 APR	11 JAN 85	
1982-033DN		15282	USSR	19 APR	03 JAN 85	
1982-033DP		15283	USSR	19 APR	14 FEB 85	
1982-033DQ		15284	USSR	19 APR	04 DEC 84	
1982-033DR		15297	USSR	19 APR	04 OCT 84	
1982-033DS		15303	USSR	19 APR	20 OCT 84	
1982-033DT		15304	USSR	19 APR	26 SEP 84	
1982-033DU		15305	USSR	19 APR	09 DEC 85	
1982-033DV		15306	USSR	19 APR	20 DEC 84	
1982-033DW		15307	USSR	19 APR	11 JAN 85	
1982-033DX		15311	USSR	19 APR	13 OCT 84	
1982-033DY		15312	USSR	19 APR	11 JAN 85	
1982-033DZ		15313	USSR	19 APR	11 JAN 86	
1982-033EA		15314	USSR	19 APR	10 JAN 85	
1982-033EB		15315	USSR	19 APR	25 NOV 84	
1982-033EC		15316	USSR	19 APR	11 FEB 85	
1982-033ED		15317	USSR	19 APR	08 DEC 84	
1982-033EE		15365	USSR	19 APR	05 DEC 84	
1982-033EF		15366	USSR	19 APR	12 JAN 85	
1982-033EG		15367	USSR	19 APR	03 MAR 85	
1982-033EH		15368	USSR	19 APR	11 FEB 85	
1982-033EJ		15401	USSR	19 APR	04 JAN 85	
1982-033EK		15420	USSR	19 APR	24 JAN 85	
1982-033EL		15524	USSR	19 APR	17 MAR 85	
1982-033EM		15525	USSR	19 APR	10 APR 85	
1982-033EN		15526	USSR	19 APR	08 DEC 85	
1982-033EP		15527	USSR	19 APR	28 MAR 85	
1982-033EQ		15532	USSR	19 APR	15 FEB 85	
1982-033ER		15533	USSR	19 APR	01 MAR 85	
1982-033ES		15933	USSR	19 APR	19 SEP 85	
1982-033ET		15934	USSR	19 APR	24 AUG 85	
1982-033EU		15937	USSR	19 APR	12 AUG 85	
1982-033EV		15939	USSR	19 APR	25 SEP 85	
1982-033EW		15970	USSR	19 APR	15 JAN 86	
1982-033EX		16046	USSR	19 APR	24 NOV 85	
1982-033EY		16047	USSR	19 APR	02 FEB 86	
1982-033EZ		16048	USSR	19 APR	01 JAN 86	
1982-033FA		16049	USSR	19 APR	24 DEC 85	
1982-033FB		16050	USSR	19 APR	25 OCT 85	
1982-033FC		16053	USSR	19 APR	31 MAY 86	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-033FD			16062	USSR	19 APR	03 JAN 86	
1982-033FE			16063	USSR	19 APR	30 SEP 85	
1982-033FF			16091	USSR	19 APR	20 JAN 86	
1982-033FG			16092	USSR	19 APR	22 DEC 85	
1982-033FH			16093	USSR	19 APR	26 FEB 86	
1982-033FJ			16094	USSR	19 APR	11 FEB 86	
1982-033FK			16098	USSR	19 APR	03 OCT 85	
1982-033FL			16099	USSR	19 APR	30 SEP 85	
1982-033FM			16100	USSR	19 APR	18 DEC 85	
1982-033FN			16122	USSR	19 APR	03 OCT 86	
1982-033FP			16163	USSR	19 APR	09 FEB 86	
1982-033FQ			16164	USSR	19 APR	17 FEB 86	
1982-033FR			16165	USSR	19 APR	08 JAN 86	
1982-033FS			16166	USSR	19 APR	15 JAN 87	
1982-033FT			16167	USSR	19 APR	19 FEB 86	
1982-033FU			16168	USSR	19 APR	24 JAN 86	
1982-033FV			16171	USSR	19 APR	19 JAN 86	
1982-033FW			16172	USSR	19 APR	27 FEB 86	
1982-033FX			16173	USSR	19 APR	05 FEB 86	
1982-033FY			16174	USSR	19 APR	16 FEB 86	
1982-033FZ			16175	USSR	19 APR	07 FEB 86	
1982-033GA			16176	USSR	19 APR	31 DEC 85	
1982-033GB			16217	USSR	19 APR	08 AUG 86	
1982-033GC			16218	USSR	19 APR	15 APR 86	
1982-033GD			16238	USSR	19 APR	27 MAY 86	
1982-033GE			16239	USSR	19 APR	03 DEC 85	
1982-033GF			16240	USSR	19 APR	16 NOV 86	
1982-033GG			16241	USSR	19 APR	22 FEB 86	
1982-033GH			16242	USSR	19 APR	09 APR 86	
1982-033GJ			16244	USSR	19 APR	09 MAR 86	
1982-033GK			16245	USSR	19 APR	05 DEC 85	
1982-033GL			16246	USSR	19 APR	15 MAR 86	
1982-033GM			16249	USSR	19 APR	09 FEB 86	
1982-033GN			16253	USSR	19 APR	03 DEC 86	
1982-033GP			16258	USSR	19 APR	18 JAN 86	
1982-033GQ			16259	USSR	19 APR	17 FEB 86	
1982-033GR			16260	USSR	19 APR	07 JUN 86	
1982-033GS			16441	USSR	19 APR	10 MAR 86	
1982-033GT			16721	USSR	19 APR	06 AUG 86	
1982-033GU			16749	USSR	19 APR	08 JUL 86	
1982-033GV			16750	USSR	19 APR	19 JUN 86	
1982-033GW			16751	USSR	19 APR	22 OCT 86	
1982-033GX			16752	USSR	19 APR	21 JUL 86	
1982-033GY			16810	USSR	19 APR	05 SEP 86	
1982-033GZ			16811	USSR	19 APR	31 AUG 86	
1982-033HA			16812	USSR	19 APR	09 SEP 86	
1982-033HB			16813	USSR	19 APR	27 JAN 87	
1982-033HC			16814	USSR	19 APR	20 FEB 87	
1982-033HD			16815	USSR	19 APR	10 OCT 86	
1982-033HE			16821	USSR	19 APR	27 AUG 86	
1982-033HF			16822	USSR	19 APR	08 OCT 86	
1982-033HG			16852	USSR	19 APR	21 NOV 86	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-033HH		16853	USSR	19 APR	06 SEP 86	
1982-033HU		17109	USSR	19 APR	29 MAR 87	
1982-034A	COSMOS 1351	13142	USSR	21 APR	14 MAR 83	
1982-034B		13143	USSR	21 APR	22 FEB 83	
1982-034C		13833	USSR	21 APR	27 FEB 83	
1982-034D		13836	USSR	21 APR	25 FEB 83	
1982-034E		13837	USSR	21 APR	26 FEB 83	
1982-034F		13838	USSR	21 APR	25 FEB 83	
1982-034G		13839	USSR	21 APR	25 FEB 83	
1982-034H		13840	USSR	21 APR	03 MAR 83	
1982-034J		13841	USSR	21 APR	27 FEB 83	
1982-034K		13842	USSR	21 APR	02 MAR 83	
1982-034L		13852	USSR	21 APR	26 FEB 83	
1982-034M		13853	USSR	21 APR	26 FEB 83	
1982-034N		13854	USSR	21 APR	26 FEB 83	
1982-034P		13855	USSR	21 APR	26 FEB 83	
1982-034Q		13856	USSR	21 APR	26 FEB 83	
1982-034R		13857	USSR	21 APR	26 FEB 83	
1982-034S		13858	USSR	21 APR	05 MAR 83	
1982-034T		13859	USSR	21 APR	27 FEB 83	
1982-034U		13860	USSR	21 APR	26 FEB 83	
1982-034V		13861	USSR	21 APR	26 FEB 83	
1982-034W		13862	USSR	21 APR	26 FEB 83	
1982-034X		13863	USSR	21 APR	26 FEB 83	
1982-034Y		13864	USSR	21 APR	26 FEB 83	
1982-034Z		13865	USSR	21 APR	26 FEB 83	
1982-034AA		13866	USSR	21 APR	03 MAR 83	
1982-034AB		13867	USSR	21 APR	25 FEB 83	
1982-035A	COSMOS 1352	13144	USSR	21 APR	05 MAY 82	
1982-035B		13145	USSR	21 APR	29 APR 82	
1982-035C		13155	USSR	21 APR	14 JUN 82	
1982-035D		13156	USSR	21 APR	30 NOV 82	
1982-035E		13157	USSR	21 APR	30 MAY 82	
1982-035F		13158	USSR	21 APR	02 JUL 82	
1982-036A	COSMOS 1353	13146	USSR	23 APR	06 MAY 82	
1982-036B		13147	USSR	23 APR	26 APR 82	
1982-036C		13159	USSR	23 APR	10 MAY 82	
1982-038A	COSMOS 1355	13150	USSR	29 APR	07 MAR 84	
1982-038B		13151	USSR	29 APR	29 APR 82	
1982-038C		14265	USSR	29 APR	13 SEP 83	
1982-038D		14266	USSR	29 APR	20 AUG 83	
1982-038E		14267	USSR	29 APR	20 SEP 83	
1982-038F		14268	USSR	29 APR	31 AUG 83	
1982-038G		14269	USSR	29 APR	25 AUG 83	
1982-038H		14270	USSR	29 APR	12 SEP 83	
1982-038J		14271	USSR	29 APR	14 AUG 82	
1982-038K		14272	USSR	29 APR	12 SEP 83	
1982-038L		14273	USSR	29 APR	20 AUG 83	
1982-038M		14274	USSR	29 APR	26 SEP 83	
1982-038N		14275	USSR	29 APR	27 AUG 83	
1982-038P		14276	USSR	29 APR	22 AUG 83	
1982-038Q		14279	USSR	29 APR	29 AUG 83	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-038R		14280	USSR	29 APR	26 NOV 83	
1982-038S		14281	USSR	29 APR	24 AUG 83	
1982-038T		14282	USSR	29 APR	20 AUG 83	
1982-038U		14285	USSR	29 APR	23 AUG 83	
1982-038V		14286	USSR	29 APR	23 AUG 83	
1982-038W		14342	USSR	29 APR	20 NOV 83	
1982-038X		14435	USSR	29 APR	12 NOV 83	
1982-038Y		14436	USSR	29 APR	23 DEC 83	
1982-038Z		14682	USSR	29 APR	13 FEB 84	
1982-038AA		14683	USSR	29 APR	14 FEB 84	
1982-038AB		14684	USSR	29 APR	11 FEB 84	
1982-038AC		14685	USSR	29 APR	05 FEB 84	
1982-038AD		14686	USSR	29 APR	05 FEB 84	
1982-038AE		14687	USSR	29 APR	03 FEB 84	
1982-038AF		14697	USSR	29 APR	05 DEC 82	
1982-041A		13170	US	11 MAY	13 MAY 82	
1982-041B		13171	US	11 MAY	27 AUG 82	
1982-042A	SOYUZ T-5	13173	USSR	13 MAY	15 MAY 82	
1982-042B		13174	USSR	13 MAY	29 SEP 82	
1982-043B		13592	USSR	14 MAY	19 OCT 82	
1982-043C		13593	USSR	14 MAY	16 OCT 82	
1982-043E		13602	USSR	14 MAY	08 OCT 82	
1982-044B		13615	USSR	14 MAY	18 MAY 82	
1982-044C		13178	USSR	17 MAY	19 MAY 82	
1982-044D		13179	USSR	17 MAY	14 SEP 83	
1982-044E		13217	USSR	17 MAY	14 SEP 83	
1982-044F		13218	USSR	17 MAY	17 JUN 82	
1982-045B		13206	USSR	20 MAY	04 JUN 82	
1982-045C		13207	USSR	20 MAY	03 JUN 82	
1982-046A	COSMOS 1368	13208	USSR	21 MAY	29 MAY 82	
1982-046B		13209	USSR	21 MAY	06 JUN 82	
1982-046C		13254	USSR	21 MAY	06 JUN 82	
1982-046D		13255	USSR	21 MAY	09 JUN 82	
1982-046E		13256	USSR	21 MAY	06 JUN 82	
1982-047A	PROGRESS 13	13210	USSR	23 MAY	25 MAY 82	
1982-047B		13211	USSR	23 MAY	25 MAY 82	
1982-047C		13212	USSR	23 MAY	08 JUN 82	
1982-048A	COSMOS 1369	13213	USSR	25 MAY	30 MAY 82	
1982-048B		13214	USSR	25 MAY	26 MAY 82	
1982-048C		13216	USSR	25 MAY	27 JUN 82	
1982-048D		13267	USSR	25 MAY	15 JUN 82	
1982-048E		13268	USSR	25 MAY	11 JUL 82	
1982-049A	COSMOS 1370	13219	USSR	28 MAY	31 MAY 82	
1982-049B		13220	USSR	28 MAY	19 NOV 92	
1982-050A	MOLNIYA 1-54	13237	USSR	28 MAY	12 JUL 82	
1982-050B		13238	USSR	28 MAY	28 JUN 82	
1982-050C		13239	USSR	28 MAY	28 JUN 82	
1982-050D		13240	USSR	28 MAY	01 JUN 82	
1982-050E		13253	USSR	28 MAY	02 APR 93	
1982-052B		13411	USSR	01 JUN	09 SEP 82	
1982-052C		13412	USSR	01 JUN	13 AUG 82	
1982-053A	COSMOS 1373	13244	USSR	02 JUN	16 JUN 82	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-053B		13245	USSR	02 JUN	11 JUN 82	
1982-053C		13276	USSR	02 JUN	18 JUL 82	
1982-053D		13277	USSR	02 JUN	10 AUG 82	
1982-053E		13278	USSR	02 JUN	04 NOV 82	
1982-053F		13279	USSR	02 JUN	05 AUG 82	
1982-054A	COSMOS 1374	13257	USSR	03 JUN	03 JUN 82	
1982-054B		13258	USSR	03 JUN	05 JUN 82	
1982-054C		13280	USSR	03 JUN	03 JUN 82	
1982-055BU		19243	USSR	06 JUN	31 DEC 89	
1982-056A	COSMOS 1376	13263	USSR	08 JUN	22 JUN 82	
1982-056B		13264	USSR	08 JUN	12 JUN 82	
1982-056C		13288	USSR	08 JUN	14 JUL 82	
1982-056D		13289	USSR	08 JUN	29 JUN 82	
1982-056E		13290	USSR	08 JUN	22 JUN 82	
1982-057A	COSMOS 1377	13265	USSR	08 JUN	22 JUL 82	
1982-057B		13266	USSR	08 JUN	12 JUN 82	
1982-058B		13294	US	09 JUN	22 MAR 90	
1982-060A	COSMOS 1379	13281	USSR	18 JUN	18 JUN 82	
1982-060B		13284	USSR	18 JUN	18 JUN 82	
1982-061A	COSMOS 1380	13282	USSR	18 JUN	27 JUN 82	
1982-061B		13286	USSR	18 JUN	25 JUN 82	
1982-062A	COSMOS 1381	13283	USSR	18 JUN	01 JUL 82	
1982-062B		13285	USSR	18 JUN	28 JUN 82	
1982-062C		13305	USSR	18 JUN	11 AUG 82	
1982-062D		13306	USSR	18 JUN	10 SEP 82	
1982-062E		13307	USSR	18 JUN	13 JUL 82	
1982-062F	SOYUZ T-6	13363	USSR	18 JUN	24 FEB 83	
1982-063A		13292	USSR	24 JUN	02 JUL 82	
1982-063B		13293	USSR	24 JUN	26 JUN 82	
1982-064B		13296	USSR	25 JUN	07 AUG 82	
1982-064C		13297	USSR	25 JUN	15 JUL 82	
1982-065A	STS 4	13300	US	27 JUN	04 JUL 82	
1982-067A	COSMOS 1384	13303	USSR	30 JUN	30 JUL 82	
1982-067B		13304	USSR	30 JUN	05 JUL 82	
1982-068A	COSMOS 1385	13345	USSR	06 JUL	20 JUL 82	
1982-068B		13346	USSR	06 JUL	08 JUL 82	
1982-068C		13370	USSR	06 JUL	20 JUL 82	
1982-068D		13371	USSR	06 JUL	17 AUG 82	
1982-068E		13372	USSR	06 JUL	18 OCT 82	
1982-068F		13373	USSR	06 JUL	09 AUG 82	
1982-068G		13374	USSR	06 JUL	19 AUG 82	
1982-070A	PROGRESS 14	13361	USSR	10 JUL	13 AUG 82	
1982-071A	COSMOS 1387	13365	USSR	10 JUL	12 JUL 82	
1982-071B		13366	USSR	13 JUL	26 JUL 82	
1982-071C		13366	USSR	13 JUL	17 JUL 82	
1982-071D		13388	USSR	13 JUL	31 JUL 82	
1982-072B		13389	USSR	13 JUL	27 JUL 82	
1982-074A		13368	US	16 JUL	12 JUL 82	
1982-074B	MDLNIYA 1-55	13383	USSR	21 JUL	21 JUL 84	
1982-074C		13384	USSR	21 JUL	20 SEP 82	
1982-075A	COSMOS 1396	13385	USSR	21 JUL	03 SEP 82	
		13391	USSR	27 JUL	10 AUG 82	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-075B			13392	USSR	27 JUL	01 AUG 82	
1982-075C			13406	USSR	27 JUL	19 AUG 82	
1982-075D			13407	USSR	27 JUL	12 AUG 82	
1982-076A			13394	USSR	29 JUL	18 MAY 83	
1982-076B		COSMOS 1397	13395	USSR	29 JUL	21 APR 83	BY*
1982-076C			13981	USSR	29 JUL	22 APR 83	
1982-076D			13982	USSR	29 JUL	21 APR 83	
1982-076E			13986	USSR	29 JUL	13 APR 83	
1982-076F			13987	USSR	29 JUL	25 APR 83	
1982-076G			13988	USSR	29 JUL	18 APR 83	
1982-076H			13989	USSR	29 JUL	13 APR 83	
1982-076J			14008	USSR	29 JUL	24 APR 83	
1982-076K			14009	USSR	29 JUL	24 APR 83	
1982-076L			14010	USSR	29 JUL	23 APR 83	
1982-076M			14011	USSR	29 JUL	24 APR 83	
1982-076N			14012	USSR	29 JUL	25 APR 83	
1982-076P			14013	USSR	29 JUL	24 APR 83	
1982-076Q			14018	USSR	29 JUL	24 APR 83	
1982-076R			14019	USSR	29 JUL	24 APR 83	
1982-076S			14020	USSR	29 JUL	26 APR 83	
1982-076T			14021	USSR	29 JUL	24 APR 83	
1982-076U			14022	USSR	29 JUL	25 APR 83	
1982-076V			14023	USSR	29 JUL	27 APR 83	
1982-076W			14024	USSR	29 JUL	27 APR 83	
1982-076X			14025	USSR	29 JUL	24 APR 83	
1982-076Y			14031	USSR	29 JUL	24 APR 83	
1982-076Z			14035	USSR	29 JUL	25 APR 83	
1982-077A		COSMOS 1398	13396	USSR	03 AUG	13 AUG 82	
1982-077B			13397	USSR	03 AUG	07 AUG 82	
1982-077C			13414	USSR	03 AUG	13 AUG 82	
1982-077D			13415	USSR	03 AUG	13 AUG 82	
1982-078A		COSMOS 1399	13399	USSR	04 AUG	16 SEP 82	
1982-078B			13400	USSR	04 AUG	08 AUG 82	
1982-078C			13401	USSR	04 AUG	08 AUG 82	
1982-080A		SOYUZ T-7	13425	USSR	19 AUG	10 DEC 82	
1982-080B			13426	USSR	19 AUG	21 AUG 82	
1982-081A		COSMOS 1401	13427	USSR	20 AUG	03 SEP 82	
1982-081B			13428	USSR	20 AUG	25 AUG 82	
1982-081C			13494	USSR	20 AUG	07 SEP 82	
1982-081D			13495	USSR	20 AUG	09 SEP 82	
1982-081E			13496	USSR	20 AUG	22 SEP 82	
1982-082B			13438	US	26 AUG	18 SEP 82	
1982-082C			13447	US	26 AUG	23 AUG 85	
1982-083B			13433	USSR	27 AUG	12 SEP 82	
1982-083C			13434	USSR	27 AUG	10 SEP 82	
1982-083D			13437	USSR	27 AUG	02 SEP 82	
1982-084A		COSMOS 1402	13441	USSR	30 AUG	23 JAN 83	
1982-084B			13747	USSR	30 AUG	07 FEB 83	
1982-084C			13748	USSR	30 AUG	07 FEB 83	
1982-085A		COSMOS 1403	13448	USSR	01 SEP	15 SEP 82	
1982-085B			13450	USSR	01 SEP	09 SEP 82	
1982-085C			13452	USSR	01 SEP	02 SEP 82	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-085D		13542	USSR	01 SEP	05 APR 83	
1982-085E		13543	USSR	01 SEP	30 OCT 82	
1982-085F		13545	USSR	01 SEP	14 OCT 82	
1982-085G		13551	USSR	01 SEP	26 OCT 82	
1982-086A	COSMOS 1404	13449	USSR	01 SEP	15 SEP 82	
1982-086B		13451	USSR	01 SEP	10 SEP 82	
1982-086C		13453	USSR	01 SEP	02 SEP 82	
1982-086D		13454	USSR	01 SEP	03 SEP 82	
1982-086E		13544	USSR	01 SEP	29 OCT 82	
1982-086F		13548	USSR	01 SEP	17 OCT 82	
1982-086G		13549	USSR	01 SEP	12 APR 83	
1982-086H		13550	USSR	01 SEP	30 OCT 82	
1982-088A	COSMOS 1405	13508	USSR	04 SEP	05 FEB 84	
1982-088B		13509	USSR	04 SEP	05 SEP 82	
1982-088C		14599	USSR	04 SEP	03 JAN 84	
1982-088D		14600	USSR	04 SEP	12 JAN 84	
1982-088E		14601	USSR	04 SEP	03 JAN 84	
1982-088F		14602	USSR	04 SEP	01 JAN 84	
1982-088G		14603	USSR	04 SEP	08 JAN 84	
1982-088H		14604	USSR	04 SEP	05 JAN 84	
1982-088J		14605	USSR	04 SEP	17 FEB 84	
1982-088K		14606	USSR	04 SEP	03 JAN 84	
1982-088L		14636	USSR	04 SEP	08 JAN 84	
1982-088M		14637	USSR	04 SEP	10 JAN 84	
1982-088N		14638	USSR	04 SEP	31 DEC 83	
1982-088P		14639	USSR	04 SEP	01 JAN 84	
1982-088Q		14640	USSR	04 SEP	28 DEC 83	
1982-088R		14641	USSR	04 SEP	01 JAN 84	
1982-088S		14642	USSR	04 SEP	30 DEC 83	
1982-088T		14643	USSR	04 SEP	04 JAN 84	
1982-088U		14644	USSR	04 SEP	30 DEC 83	
1982-088V		14645	USSR	04 SEP	31 DEC 83	
1982-088W		14646	USSR	04 SEP	13 JAN 84	
1982-088X		14647	USSR	04 SEP	06 JAN 84	
1982-088Y		14648	USSR	04 SEP	21 FEB 84	
1982-088Z		14649	USSR	04 SEP	04 JAN 84	
1982-088AA		14650	USSR	04 SEP	09 JAN 84	
1982-088AB		14651	USSR	04 SEP	05 JAN 84	
1982-088AC		14652	USSR	04 SEP	27 FEB 84	
1982-088AD		14653	USSR	04 SEP	28 JAN 84	
1982-088AE		14654	USSR	04 SEP	14 JAN 84	
1982-088AF		14655	USSR	04 SEP	03 FEB 84	
1982-088AG		14656	USSR	04 SEP	19 FEB 84	
1982-088AH		14657	USSR	04 SEP	31 JAN 84	
1982-088AJ		14658	USSR	04 SEP	21 JAN 84	
1982-089A	COSMOS 1406	13519	USSR	08 SEP	21 SEP 82	
1982-089B		13520	USSR	08 SEP	11 SEP 82	
1982-089C		13581	USSR	08 SEP	25 SEP 82	
1982-089D		13582	USSR	08 SEP	23 SEP 82	
1982-090A	PRC 12	13521	PRC	09 SEP	21 SEP 82	
1982-090B		13540	PRC	09 SEP	09 SEP 82	
1982-090C		13557	PRC	09 SEP	11 SEP 82	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982-091A	COSMOS 1407		13546	USSR	15 SEP	16 OCT 82	
1982-091B			13547	USSR	15 SEP	19 SEP 82	
1982-093B			13555	USSR	16 SEP	18 SEP 82	
1982-093C			13556	USSR	16 SEP	17 SEP 82	
1982-093D			13583	USSR	16 SEP	12 OCT 83	
1982-093E			13584	USSR	16 SEP	14 SEP 83	
1982-094A	PROGRESS 15		13558	USSR	18 SEP	16 OCT 82	
1982-094B			13559	USSR	18 SEP	20 SEP 82	
1982-095B			13586	USSR	22 SEP	17 OCT 82	
1982-095C			13587	USSR	22 SEP	13 OCT 82	
1982-097B			13599	US	28 SEP	16 FEB 92	
1982-098A	COSMOS 1411		13597	USSR	30 SEP	14 OCT 82	
1982-098B			13598	USSR	30 SEP	06 OCT 82	
1982-098C			13613	USSR	30 SEP	23 OCT 82	
1982-098D			13614	USSR	30 SEP	15 OCT 82	
1982-098E			13616	USSR	30 SEP	16 OCT 82	
1982-099B			13645	USSR	02 OCT	04 DEC 82	
1982-099C			13646	USSR	02 OCT	12 NOV 82	
1982-099D			13647	USSR	02 OCT	14 NOV 82	
1982-100B			13604	USSR	12 OCT	14 OCT 82	
1982-100C			13605	USSR	12 OCT	13 OCT 82	
1982-101A	COSMOS 1416		13611	USSR	14 OCT	28 OCT 82	
1982-101B			13612	USSR	14 OCT	23 OCT 82	
1982-101C			13633	USSR	14 OCT	30 OCT 82	
1982-101D			13634	USSR	14 OCT	08 NOV 82	
1982-103B			13625	USSR	20 OCT	22 OCT 82	
1982-103C			13626	USSR	20 OCT	21 OCT 82	
1982-103D			13629	USSR	20 OCT	05 JUL 83	
1982-103F			13627	USSR	21 OCT	21 MAY 83	
1982-104A	COSMOS 1418		13628	USSR	21 OCT	30 SEP 83	
1982-104B			13628	USSR	21 OCT	30 MAR 83	
1982-105B			13632	US	28 OCT	16 DEC 88	
1982-105C			13684	US	28 OCT	09 FEB 84	
1982-106C			13639	US	30 OCT	14 SEP 83	
1982-107A	PROGRESS 16		13638	USSR	31 OCT	14 DEC 82	
1982-107B			13640	USSR	31 OCT	02 NOV 82	
1982-108A	COSMOS 1419		13641	USSR	02 NOV	16 NOV 82	
1982-108B			13642	USSR	02 NOV	06 NOV 82	
1982-108C			13654	USSR	02 NOV	21 NOV 82	
1982-108D			13655	USSR	02 NOV	17 NOV 82	
1982-108E			13656	USSR	02 NOV	17 NOV 82	
1982-108F			13657	USSR	02 NOV	16 NOV 82	
1982-109C			14227	USSR	11 NOV	19 SEP 90	
1982-110A	STS 5		13650	US	11 NOV	16 NOV 82	
1982-111A			13659	US	17 NOV	13 AUG 85	
1982-111B			13660	US	17 NOV	27 DEC 82	
1982-112A	COSMOS 1421		13661	USSR	18 NOV	02 DEC 82	
1982-112B			13662	USSR	18 NOV	22 NOV 82	
1982-112C			13665	USSR	18 NOV	20 NOV 82	
1982-112D			13672	USSR	18 NOV	05 DEC 82	
1982-112E			13673	USSR	18 NOV	06 DEC 82	
1982-112F			13674	USSR	18 NOV	14 DEC 82	

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INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1982-113B			13670		USSR	26 NOV	27 NOV 82	
1982-113C			13671		USSR	26 NOV	28 NOV 82	
1982-113D			13675		USSR	26 NOV	15 JUN 84	
1982-113E			13676		USSR	26 NOV	12 OCT 83	
1982-114A	COSMOS 1422		13677		USSR	03 DEC	17 DEC 82	
1982-114B			13678		USSR	03 DEC	07 DEC 82	
1982-114C			13679		USSR	03 DEC	04 DEC 82	
1982-114D			13727		USSR	03 DEC	29 DEC 82	
1982-114E			13728		USSR	03 DEC	20 DEC 82	
1982-114F			13730		USSR	03 DEC	18 DEC 82	
1982-115A	COSMOS 1423		13685		USSR	08 DEC	27 JAN 86	
1982-115B			13686		USSR	08 DEC	27 DEC 82	
1982-115C			13693		USSR	08 DEC	09 DEC 82	
1982-115D			13692		USSR	08 DEC	22 DEC 82	
1982-115E			13696		USSR	08 DEC	16 MAY 88	
1982-115F			13697		USSR	08 DEC	19 DEC 82	
1982-115G			13698		USSR	08 DEC	21 DEC 82	
1982-115H			13699		USSR	08 DEC	23 DEC 82	
1982-115J			13701		USSR	08 DEC	12 DEC 82	
1982-115K			13702		USSR	08 DEC	26 DEC 82	
1982-115L			13703		USSR	08 DEC	15 DEC 82	
1982-115M			13704		USSR	08 DEC	11 APR 84	
1982-115N			13705		USSR	08 DEC	26 MAY 85	
1982-115P			13706		USSR	08 DEC	08 APR 83	
1982-115Q			13707		USSR	08 DEC	07 JUN 84	
1982-115R			13708		USSR	08 DEC	23 MAR 89	
1982-115S			13709		USSR	08 DEC	01 NOV 83	
1982-115T			13710		USSR	08 DEC	29 FEB 84	
1982-115U			13711		USSR	08 DEC	02 SEP 83	
1982-115V			13712		USSR	08 DEC	06 DEC 84	
1982-115W			13713		USSR	08 DEC	11 DEC 85	
1982-115X			13714		USSR	08 DEC	17 FEB 86	
1982-115Y			13715		USSR	08 DEC	16 JUL 84	
1982-115Z			13716		USSR	08 DEC	26 MAY 84	
1982-115AA			13717		USSR	08 DEC	08 MAR 84	
1982-115AB			13721		USSR	08 DEC	15 SEP 83	
1982-115AC			13722		USSR	08 DEC	26 JAN 84	
1982-115AD			13937		USSR	08 DEC	21 APR 83	
1982-115AE			13938		USSR	08 DEC	05 MAY 84	
1982-115AF			14343		USSR	08 DEC	02 APR 85	
1982-115AG			14434		USSR	08 DEC	16 NOV 85	
1982-115AH			19666		USSR	08 DEC	08 JAN 89	
1982-115AJ			19835		USSR	08 DEC	12 MAR 89	
1982-117A	COSMOS 1424		13725		USSR	16 DEC	28 JAN 83	
1982-117B			13726		USSR	16 DEC	19 DEC 82	
1982-118B			13737		US	21 DEC	01 OCT 91	
1982-118D			13773		US	21 DEC	06 JUN 91	
1982-118E			13774		US	21 DEC	29 OCT 91	
1982-119A	COSMOS 1425		13739		USSR	23 DEC	06 JAN 83	
1982-119B			13740		USSR	23 DEC	06 JAN 83	
1982-119C			13741		USSR	23 DEC	28 DEC 82	
1982-119D			13742		USSR	23 DEC	28 DEC 82	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
		NAME											
1982-119E				13754		USSR		23 DEC		27 OCT 83			
1982-119F				13755		USSR		23 DEC		03 MAR 83			
1982-119G				13756		USSR		23 DEC		11 FEB 83			
1982-120A		COSMOS 1426		13745		USSR		28 DEC		05 MAR 83			
1982-120B				13746		USSR		28 DEC		07 JAN 83			
1982-120C				13749		USSR		28 DEC		23 MAR 83			
1982-120D				13752		USSR		28 DEC		07 JAN 83			
1982-120E				13873		USSR		28 DEC		08 MAR 83			
1982-121A		COSMOS 1427		13750		USSR		29 DEC		05 OCT 89			
1982-121B				13751		USSR		29 DEC		26 MAR 88			
1983 LAUNCHES													
1983-005A		COSMOS 1438		13779		USSR		27 JAN		07 FEB 83			
1983-005B				13780		USSR		27 JAN		30 JAN 83			
1983-005C				13787		USSR		27 JAN		12 FEB 83			
1983-005D				13788		USSR		27 JAN		08 FEB 83			
1983-005E				13789		USSR		27 JAN		11 FEB 83			
1983-005F				13790		USSR		27 JAN		13 FEB 83			
1983-007A		COSMOS 1439		13784		USSR		06 FEB		22 FEB 83			
1983-007B				13785		USSR		06 FEB		10 FEB 83			
1983-007C				13843		USSR		06 FEB		22 FEB 83			
1983-009A		COSMOS 1440		13793		USSR		10 FEB		24 FEB 83			
1983-009B				13794		USSR		10 FEB		15 FEB 83			
1983-009C				13847		USSR		10 FEB		15 MAR 83			
1983-009D				13848		USSR		10 FEB		02 MAR 83			
1983-011A		ASTRO-B		13829		JAPAN		20 FEB		17 DEC 88			
1983-011B				13830		JAPAN		20 FEB		19 JAN 89			
1983-011C				13846		JAPAN		20 FEB		03 MAR 83			
1983-011D				14566		JAPAN		20 FEB		31 AUG 87			
1983-011E				14567		JAPAN		20 FEB		08 OCT 84			
1983-012A		COSMOS 1442		13850		USSR		25 FEB		11 APR 83			
1983-012B				13851		USSR		25 FEB		01 MAR 83			
1983-013A		COSMOS 1443		13868		USSR		02 MAR		19 SEP 83			
1983-013B				13869		USSR		02 MAR		05 MAR 83			
1983-013C				13872		USSR		02 MAR		04 MAR 83			
1983-013D				14305		USSR		02 MAR		12 SEP 83			
1983-014A		COSMOS 1444		13870		USSR		02 MAR		16 MAR 83			
1983-014B				13871		USSR		02 MAR		11 MAR 83			
1983-014C				13891		USSR		02 MAR		16 MAR 83			
1983-014D				13892		USSR		02 MAR		20 APR 83			
1983-014E				13893		USSR		02 MAR		26 MAY 83			
1983-014F				13894		USSR		02 MAR		04 FEB 84			
1983-015B				13876		USSR		11 MAR		27 MAR 83			
1983-015C				13877		USSR		11 MAR		01 APR 83			
1983-015D				13881		USSR		11 MAR		26 MAR 83			
1983-016B				13879		USSR		12 MAR		14 MAR 83			
1983-016C				13880		USSR		12 MAR		13 MAR 83			
1983-016D				13884		USSR		12 MAR		27 OCT 86			
1983-016E				13885		USSR		12 MAR		02 APR 86			
1983-017A		COSMOS 1445		13883		USSR		15 MAR		16 MAR 83			
1983-017B				13888		USSR		15 MAR		17 MAR 83			

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-017C	COSMOS 1446	13889	USSR	15 MAR	18 MAR 83	
1983-018A		13886	USSR	16 MAR	30 MAR 83	
1983-018B		13887	USSR	16 MAR	29 MAR 83	
1983-018C		13951	USSR	16 MAR	04 APR 83	
1983-018D		13952	USSR	16 MAR	30 MAR 83	
1983-018E		13953	USSR	16 MAR	31 MAR 83	
1983-019B		13895	USSR	16 MAR	04 APR 83	
1983-019C		13896	USSR	16 MAR	31 MAR 83	
1983-019E		13898	USSR	16 MAR	31 MAR 83	
1983-020B		13902	USSR	23 MAR	18 JUN 85	
1983-020C	COSMOS 1450	13903	USSR	23 MAR	05 AUG 85	
1983-022B		13924	US	28 MAR	12 OCT 91	
1983-022C		14477	US	28 MAR	21 MAY 91	
1983-022D		16442	US	28 MAR	09 FEB 86	
1983-022E		16443	US	28 MAR	16 JAN 86	
1983-022F		16444	US	28 MAR	20 JAN 86	
1983-022G		16502	US	28 MAR	21 FEB 88	
1983-022H		16503	US	28 MAR	19 FEB 89	
1983-022J		16504	US	28 MAR	13 NOV 86	
1983-024A		13955	USSR	31 MAR -	15 APR 83	
1983-024B	COSMOS 1449	13956	USSR	31 MAR	09 APR 83	
1983-024C		13962	USSR	31 MAR	01 APR 83	
1983-024D		13963	USSR	31 MAR	10 APR 83	
1983-024E		13993	USSR	31 MAR	23 APR 83	
1983-024F		13994	USSR	31 MAR	18 MAY 83	
1983-024G		13995	USSR	31 MAR	25 MAR 84	
1983-024H		13996	USSR	31 MAR	24 JUN 83	
1983-024J		13997	USSR	31 MAR	22 APR 83	
1983-025B		13965	USSR	02 APR	01 MAY 83	
1983-025C		13966	USSR	02 APR	16 APR 83	
1983-026A	STS 6 COSMOS 1450	13968	US	04 APR	09 APR 83	
1983-027A		13972	USSR	06 APR	30 MAY 90	
1983-027B		13973	USSR	06 APR	23 MAR 89	
1983-028B		13976	USSR	08 APR	08 APR 83	
1983-028C		13977	USSR	08 APR	10 APR 83	
1983-028D		13979	USSR	08 APR	15 MAY 84	
1983-028E		13980	USSR	08 APR	15 JUN 84	
1983-029A		13975	USSR	08 APR	22 APR 83	
1983-029B		13978	USSR	08 APR	09 APR 83	
1983-029C		14016	USSR	08 APR	20 MAY 83	
1983-029D	COSMOS 1451	14026	USSR	08 APR	25 APR 83	
1983-029E		14027	USSR	08 APR	27 APR 83	
1983-030C		13990	US	11 APR	27 OCT 86	
1983-032A		14001	US	15 APR	21 AUG 83	
1983-033A		14002	INDIA	17 APR	19 APR 90	
1983-033B		14003	INDIA	17 APR	18 MAR 89	
1983-033C		14004	INDIA	17 APR	11 MAY 87	
1983-033D		14224	INDIA	17 APR	06 JUN 88	
1983-033E		14225	INDIA	17 APR	04 JAN 89	
1983-033F		14397	INDIA	17 APR	04 FEB 84	
1983-034A	COSMOS 1453	14006	USSR	19 APR	08 MAY 89	
1983-034B		14007	USSR	19 APR	25 MAR 89	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-034C			14577	USSR	19 APR	25 MAR 84	
1983-034D			14578	USSR	19 APR	01 APR 84	
1983-034E			14597	USSR	19 APR	08 JUN 84	
1983-034F			14598	USSR	19 APR	01 DEC 84	
1983-034G			14730	USSR	19 APR	21 MAY 84	
1983-034H			14731	USSR	19 APR	10 APR 84	
1983-034J			14853	USSR	19 APR	30 MAY 84	
1983-034K			14854	USSR	19 APR	06 JUN 84	
1983-034N			15007	USSR	19 APR	02 NOV 84	
1983-034P			15008	USSR	19 APR	22 NOV 84	
1983-034Q			15013	USSR	19 APR	12 DEC 84	
1983-034R			15014	USSR	19 APR	03 DEC 84	
1983-034S			15015	USSR	19 APR	22 DEC 84	
1983-034T			15016	USSR	19 APR	14 NOV 84	
1983-034U			15017	USSR	19 APR	06 NOV 84	
1983-034V			15018	USSR	19 APR	24 OCT 84	
1983-034W			15019	USSR	19 APR	19 OCT 84	
1983-034X			15020	USSR	19 APR	14 OCT 84	
1983-034Y			15376	USSR	19 APR	15 JUL 85	
1983-034Z			15377	USSR	19 APR	22 MAY 85	
1983-035A	SOYUZ T-8		14014	USSR	20 APR	22 APR 83	
1983-035B			14015	USSR	20 APR	27 MAY 83	
1983-035C			14029	USSR	22 APR	22 MAY 83	
1983-036A	COSMOS 1454		14017	USSR	22 APR	26 APR 83	
1983-036B			14028	USSR	22 APR	22 MAY 83	
1983-036C			14030	USSR	25 APR	23 APR 83	
1983-038B			14036	USSR	25 APR	31 MAY 83	
1983-038C			14037	USSR	25 APR	07 MAY 83	
1983-038D			14038	USSR	25 APR	17 MAY 83	
1983-038F			14042	USSR	25 APR	06 MAY 83	
1983-038G			14043	USSR	25 APR	29 APR 83	
1983-039A	COSMOS 1457		14039	USSR	26 APR	08 JUN 83	
1983-039B			14040	USSR	26 APR	30 APR 83	
1983-040A	COSMOS 1458		14044	USSR	28 APR	11 MAY 83	
1983-040B			14045	USSR	28 APR	02 MAY 83	
1983-040C			14046	USSR	28 APR	19 MAY 83	
1983-040D			14066	USSR	28 APR	12 MAY 83	
1983-040E			14067	USSR	28 APR	17 MAY 83	
1983-041D			14196	US	28 APR	16 JUN 90	
1983-043A	COSMOS 1460		14058	USSR	06 MAY	20 MAY 83	
1983-043B			14060	USSR	06 MAY	15 MAY 83	
1983-043C			14061	USSR	06 MAY	21 MAY 83	
1983-043D			14062	USSR	06 MAY	06 MAY 83	
1983-043E			14063	USSR	06 MAY	08 MAY 83	
1983-043F			14078	USSR	06 MAY	11 JUL 83	
1983-043G			14079	USSR	06 MAY	09 APR 84	
1983-043H			14080	USSR	06 MAY	08 AUG 83	
1983-043J			14082	USSR	06 MAY	26 MAY 83	
1983-043K			14083	USSR	06 MAY	27 MAY 83	
1983-043L			14247	USSR	06 MAY	17 AUG 83	
1983-044B			14065	USSR	07 MAY	07 MAY 83	
1983-044C			15601	USSR	07 MAY	23 MAR 85	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-044D		15602	USSR	07 MAY	15 MAR 85	
1983-044E		15603	USSR	07 MAY	29 OCT 86	
1983-044F		15604	USSR	07 MAY	22 APR 85	
1983-044G		15605	USSR	07 MAY	04 SEP 88	
1983-044H		15606	USSR	07 MAY	22 OCT 88	
1983-044J		15681	USSR	07 MAY	18 AUG 88	
1983-044K		15682	USSR	07 MAY	18 FEB 89	
1983-044L		15683	USSR	07 MAY	24 AUG 88	
1983-044M		15684	USSR	07 MAY	06 OCT 89	
1983-044N		15685	USSR	07 MAY	16 DEC 90	
1983-044P		15686	USSR	07 MAY	22 OCT 88	
1983-044Q		15687	USSR	07 MAY	27 MAR 89	
1983-044R		20133	USSR	07 MAY	10 JUL 89	
1983-044S		15688	USSR	07 MAY	04 JUL 87	
1983-044T		15689	USSR	07 MAY	24 JUL 87	
1983-044U		15690	USSR	07 MAY	01 FEB 89	
1983-044V		15691	USSR	07 MAY	07 APR 88	
1983-044W		15692	USSR	07 MAY	17 JAN 89	
1983-044X		15703	USSR	07 MAY	17 FEB 89	
1983-044Y		15704	USSR	07 MAY	09 MAR 89	
1983-044Z		15705	USSR	07 MAY	28 APR 89	
1983-044AB		15706	USSR	07 MAY	26 MAR 89	
1983-044AC		15708	USSR	07 MAY	21 OCT 89	
1983-044AD		15709	USSR	07 MAY	08 MAR 89	
1983-044AE		15710	USSR	07 MAY	05 AUG 89	
1983-044AF		15711	USSR	07 MAY	15 AUG 87	
1983-044AG		15712	USSR	07 MAY	16 DEC 88	
1983-044AH		15713	USSR	07 MAY	17 AUG 91	
1983-044AJ		15716	USSR	07 MAY	23 MAY 89	
1983-044AK		15717	USSR	07 MAY	03 JUN 89	
1983-044AL		15718	USSR	07 MAY	02 SEP 90	
1983-044AM		15719	USSR	07 MAY	22 MAR 91	
1983-044AN		15720	USSR	07 MAY	20 MAR 89	
1983-044AP		15721	USSR	07 MAY	15 APR 87	
1983-044AQ		15722	USSR	07 MAY	09 APR 90	
1983-044AR		15723	USSR	07 MAY	19 FEB 89	
1983-044AS		15724	USSR	07 MAY	26 JUN 89	
1983-044AT		15725	USSR	07 MAY	06 JUN 85	
1983-044AU		15726	USSR	07 MAY	05 MAR 89	
1983-044AV		15727	USSR	07 MAY	16 MAR 89	
1983-044AW		15728	USSR	07 MAY	28 NOV 89	
1983-044AX		15729	USSR	07 MAY	18 JUL 90	
1983-044AY		15730	USSR	07 MAY	11 JUN 85	
1983-044AZ		15731	USSR	07 MAY	29 APR 90	
1983-044BA		15736	USSR	07 MAY	26 JUN 89	
1983-044BB		15737	USSR	07 MAY	14 SEP 88	
1983-044BC		15796	USSR	07 MAY	14 JUN 89	
1983-044BD		15797	USSR	07 MAY	04 FEB 89	
1983-044BE		15798	USSR	07 MAY	26 MAY 87	
1983-044BF		15799	USSR	07 MAY	15 NOV 90	
1983-044BG		15800	USSR	07 MAY	18 APR 89	
		15801	USSR	07 MAY	01 DEC 90	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-044BH			15802	USSR	07 MAY	28 FEB 88	
1983-044BJ			15803	USSR	07 MAY	21 OCT 88	
1983-044BK			15812	USSR	07 MAY	04 MAR 88	
1983-044BL			15813	USSR	07 MAY	22 OCT 85	
1983-044BM			15814	USSR	07 MAY	03 JUN 90	
1983-044BN			15815	USSR	07 MAY	29 APR 92	
1983-044BP			15816	USSR	07 MAY	10 JUN 89	
1983-044BQ			15817	USSR	07 MAY	27 APR 89	
1983-044BR			16774	USSR	07 MAY	11 APR 89	
1983-044BS			16775	USSR	07 MAY	04 MAR 89	
1983-044BT			16776	USSR	07 MAY	16 DEC 89	
1983-044BU			16777	USSR	07 MAY	12 FEB 89	
1983-044BV			16778	USSR	07 MAY	29 MAR 89	
1983-044BW			16779	USSR	07 MAY	13 JAN 89	
1983-044BX			16780	USSR	07 MAY	02 JUL 90	
1983-044BY			16781	USSR	07 MAY	10 DEC 88	
1983-044BZ			16782	USSR	07 MAY	22 JUN 90	
1983-044CA			17010	USSR	07 MAY	22 MAR 89	
1983-044CB			17011	USSR	07 MAY	03 JAN 89	
1983-044CC			17012	USSR	07 MAY	22 JUN 89	
1983-044CD			17013	USSR	07 MAY	25 APR 90	
1983-044CE			17014	USSR	07 MAY	27 FEB 89	
1983-044CF			17015	USSR	07 MAY	22 DEC 88	
1983-044CG			17016	USSR	07 MAY	13 MAY 89	
1983-044CH			17017	USSR	07 MAY	03 AUG 89	
1983-044CJ			17091	USSR	07 MAY	09 MAR 88	
1983-044CK			17096	USSR	07 MAY	17 APR 89	
1983-044CL			17097	USSR	07 MAY	30 APR 89	
1983-044CM			17098	USSR	07 MAY	21 OCT 90	
1983-044CN			17099	USSR	07 MAY	28 MAR 90	
1983-044CP			17163	USSR	07 MAY	13 JUN 89	
1983-044CQ			17171	USSR	07 MAY	17 MAR 89	
1983-044CR			17643	USSR	07 MAY	08 APR 89	
1983-044CS			17644	USSR	07 MAY	18 DEC 88	
1983-044CT			17645	USSR	07 MAY	11 APR 89	
1983-044CU			17646	USSR	07 MAY	25 JAN 89	
1983-044CV			17647	USSR	07 MAY	14 FEB 89	
1983-044CW			17733	USSR	07 MAY	22 DEC 88	
1983-044CX			17734	USSR	07 MAY	13 SEP 89	
1983-044CZ			17736	USSR	07 MAY	11 MAY 89	
1983-044DA			17737	USSR	07 MAY	22 JAN 88	
1983-044DB			17738	USSR	07 MAY	16 NOV 88	
1983-044DC			17739	USSR	07 MAY	02 OCT 89	
1983-044DD			17740	USSR	07 MAY	13 FEB 91	
1983-044DE			17741	USSR	07 MAY	15 OCT 89	
1983-044DF			17742	USSR	07 MAY	06 MAY 89	
1983-044DG			17743	USSR	07 MAY	03 NOV 88	
1983-044DH			17744	USSR	07 MAY	02 APR 88	
1983-044DJ			17745	USSR	07 MAY	22 MAR 90	
1983-044DK			17746	USSR	07 MAY	30 AUG 89	
1983-044DL			17747	USSR	07 MAY	12 OCT 89	
						10 APR 89	

INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-044DM			17748	USSR	07 MAY	01 APR 89	
1983-044DN			17749	USSR	07 MAY	17 APR 89	
1983-044DP			17750	USSR	07 MAY	04 JUL 89	
1983-044DQ			17751	USSR	07 MAY	05 JUN 89	
1983-044DR			17752	USSR	07 MAY	27 DEC 89	
1983-044DS			17753	USSR	07 MAY	14 MAY 89	
1983-044DT			17833	USSR	07 MAY	11 MAY 89	
1983-044DU			17834	USSR	07 MAY	22 MAY 89	
1983-044DV			17835	USSR	07 MAY	19 JAN 89	
1983-044DW			17836	USSR	07 MAY	10 APR 89	
1983-044DX			17837	USSR	07 MAY	29 MAR 89	
1983-044DY			18237	USSR	07 MAY	21 DEC 88	
1983-044DZ			18243	USSR	07 MAY	07 SEP 89	
1983-044EA			18244	USSR	07 MAY	13 SEP 89	
1983-044EB			18245	USSR	07 MAY	29 NOV 88	
1983-044EC			18246	USSR	07 MAY	13 FEB 89	
1983-044ED			18247	USSR	07 MAY	12 FEB 89	
1983-044EE			18248	USSR	07 MAY	21 NOV 89	
1983-044EF			18249	USSR	07 MAY	21 DEC 88	
1983-044EG			18378	USSR	07 MAY	02 JUL 89	
1983-044EH			18379	USSR	07 MAY	04 JUN 89	
1983-044EJ			18473	USSR	07 MAY	13 APR 89	
1983-044EK			18474	USSR	07 MAY	28 AUG 90	
1983-044EM			18481	USSR	07 MAY	30 DEC 88	
1983-044EN			18482	USSR	07 MAY	24 MAR 88	
1983-044EP			18483	USSR	07 MAY	23 APR 89	
1983-044EQ			18484	USSR	07 MAY	18 OCT 88	
1983-044ER			18485	USSR	07 MAY	19 JAN 89	
1983-044ES			18493	USSR	07 MAY	02 JUL 88	
1983-044ET			18520	USSR	07 MAY	16 JUN 89	
1983-044EU			18544	USSR	07 MAY	23 MAY 89	
1983-044EV			18566	USSR	07 MAY	03 APR 89	
1983-044EW			18694	USSR	07 MAY	22 JAN 88	
1983-044EX			18797	USSR	07 MAY	11 AUG 89	
1983-044EY			18812	USSR	07 MAY	12 FEB 91	
1983-044EZ			18868	USSR	07 MAY	26 DEC 88	
1983-044FA			18869	USSR	07 MAY	02 NOV 88	
1983-044FB			18975	USSR	07 MAY	24 MAY 88	
1983-044FC			19101	USSR	07 MAY	04 MAY 89	
1983-044FD			19172	USSR	07 MAY	27 OCT 89	
1983-044FE			19296	USSR	07 MAY	15 MAY 89	
1983-044FF			19303	USSR	07 MAY	04 DEC 89	
1983-044FG			19305	USSR	07 MAY	18 NOV 88	
1983-044FH			19308	USSR	07 MAY	27 MAY 89	
1983-044FJ			19310	USSR	07 MAY	30 NOV 89	
1983-044FK			19361	USSR	07 MAY	07 APR 89	
1983-044FL			19426	USSR	07 MAY	05 MAR 89	
1983-044FM			19427	USSR	07 MAY	03 MAR 89	
1983-044FN			19668	USSR	07 MAY	16 JAN 90	
1983-044FP			19947	USSR	07 MAY	19 MAY 89	
1983-045A			14071	USSR	17 MAY	31 MAY 83	
1983-045B			14072	USSR	17 MAY	23 MAY 83	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1983-045C			14073		USSR	17 MAY	21 MAY 83	
1983-045D			14074		USSR	17 MAY	09 JUN 83	
1983-045E			14098		USSR	17 MAY	07 JUN 83	
1983-045F			14099		USSR	17 MAY	20 JUN 83	
1983-046A		COSMOS 1463	14075		USSR	19 MAY	24 JAN 93	
1983-046B			14076		USSR	19 MAY	07 NOV 89	
1983-047B			14081		US	19 MAY	13 FEB 88	
1983-049A		COSMOS 1465	14087		USSR	26 MAY	23 JAN 85	
1983-049B			14088		USSR	26 MAY	11 JAN 85	
1983-049C			14091		USSR	26 MAY	15 JUL 83	
1983-049D			14092		USSR	26 MAY	02 JUL 83	
1983-049E			14093		USSR	26 MAY	05 JUL 83	
1983-049F			14094		USSR	26 MAY	09 DEC 83	
1983-049G			14212		USSR	26 MAY	02 NOV 83	
1983-049H			14213		USSR	26 MAY	31 OCT 83	
1983-049J			14214		USSR	26 MAY	29 OCT 83	
1983-049K			14215		USSR	26 MAY	25 OCT 83	
1983-050A		COSMOS 1466	14089		USSR	26 MAY	06 JUL 83	
1983-050B			14090		USSR	26 MAY	30 MAY 83	
1983-050C			14097		USSR	26 MAY	27 MAY 83	
1983-051A		EXOSAT	14095		ESA	26 MAY	06 MAY 86	
1983-051C			14525		US	26 MAY	07 APR 86	
1983-051D			14526		US	26 MAY	06 MAR 89	
1983-051E			14927		US	26 MAY	21 MAR 89	
1983-052A		COSMOS 1467	14100		USSR	31 MAY	12 JUN 83	
1983-052B			14101		USSR	31 MAY	10 JUN 83	
1983-052C			14102		USSR	31 MAY	02 JUN 83	
1983-052D			14103		USSR	31 MAY	02 JUN 83	
1983-052E			14116		USSR	31 MAY	06 JUN 84	
1983-052F			14118		USSR	31 MAY	13 SEP 83	
1983-052G			14119		USSR	31 MAY	19 JUN 83	
1983-052H			14120		USSR	31 MAY	21 JUN 83	
1983-052J			14121		USSR	02 JUN	07 AUG 83	
1983-053B			14105		USSR	02 JUN	03 JUN 83	
1983-053C			14106		USSR	02 JUN	08 JUN 83	
1983-054B			14108		USSR	07 JUN	08 JUN 83	
1983-054C			14109		USSR	07 JUN	08 JUN 83	
1983-055A		COSMOS 1468	14110		USSR	07 JUN	21 JUN 83	
1983-055B			14111		USSR	07 JUN	12 JUN 83	
1983-055C			14140		USSR	07 JUN	15 JUL 83	
1983-055D			14141		USSR	07 JUN	29 JUN 83	
1983-057A		COSMOS 1469	14123		USSR	14 JUN	24 JUN 83	
1983-057B			14124		USSR	14 JUN	23 JUN 83	
1983-057C			14126		USSR	14 JUN	04 OCT 83	
1983-057D			14127		USSR	14 JUN	15 JUN 83	
1983-057E			14149		USSR	14 JUN	27 JUN 83	
1983-057F			14150		USSR	14 JUN	04 JUL 83	
1983-058D			14151		ESA	16 JUN	03 JUL 86	
1983-058E			17302		ESA	16 JUN	10 JUL 90	
1983-059A		STS 7	14132		US	18 JUN	24 JUN 83	
1983-059F		SPAS-O1	14142		FRG	18 JUN	24 JUN 83	
1983-060A			14137		US	20 JUN	21 MAR 84	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-060B	SOYUZ T-9	14138	US	20 JUN	22 JUN 83	
1983-062A		14152	USSR	27 JUN	23 NOV 83	
1983-062B		14153	USSR	27 JUN	29 JUN 83	
1983-062C	COSMOS 1471	14519	USSR	27 JUN	17 MAR 84	
1983-064A		14156	USSR	28 JUN	28 JUL 83	
1983-064B		14157	USSR	28 JUN	03 JUL 83	
1983-064C		14232	USSR	28 JUN	28 JUL 83	
1983-064D		14233	USSR	28 JUN	28 JUL 83	
1983-065B		14159	US	28 JUN	11 AUG 83	
1983-066B		14161	USSR	30 JUN	03 JUL 83	
1983-066C		14162	USSR	30 JUN	01 JUL 83	
1983-066D		14166	USSR	30 JUN	22 FEB 84	
1983-067B		14164	USSR	01 JUL	05 AUG 83	
1983-067C	COSMOS 1472	14165	USSR	01 JUL	25 JUL 83	
1983-068A		14169	USSR	05 JUL	19 JUL 83	
1983-068B		14170	USSR	05 JUL	07 JUL 83	
1983-068C		14197	USSR	05 JUL	11 DEC 83	
1983-068D		14198	USSR	05 JUL	03 SEP 83	
1983-068E		14202	USSR	05 JUL	16 AUG 83	
1983-068F		14203	USSR	05 JUL	28 AUG 83	
1983-070B		14183	USSR	08 JUL	21 AUG 83	
1983-070C		14184	USSR	08 JUL	24 JUL 83	
1983-071A	COSMOS 1482	14185	USSR	13 JUL	27 JUL 83	
1983-071B		14186	USSR	13 JUL	25 JUL 83	
1983-071C		14187	USSR	13 JUL	15 JUL 83	
1983-071D		14188	USSR	13 JUL	09 DEC 83	
1983-071E		14217	USSR	13 JUL	20 SEP 83	
1983-071F		14218	USSR	13 JUL	14 OCT 83	
1983-071G		14219	USSR	13 JUL	20 OCT 83	
1983-071H		14230	USSR	13 JUL	25 JUN 84	
1983-071J		14231	USSR	13 JUL	31 JUL 83	
1983-073B		14200	USSR	19 JUL	20 AUG 83	
1983-073C	COSMOS 1483	14201	USSR	19 JUL	11 AUG 83	
1983-074A		14206	USSR	19 JUL	03 FEB 90	
1983-074B		14204	USSR	20 JUL	03 AUG 83	
1983-074C		14205	USSR	20 JUL	26 JUL 83	
1983-074D		14239	USSR	20 JUL	11 AUG 83	
1983-074E		14242	USSR	20 JUL	11 AUG 83	
1983-074F		14243	USSR	20 JUL	26 AUG 83	
1983-075Q		22898	USSR	24 JUL	12 NOV 93	
1983-075T		22901	USSR	24 JUL	19 NOV 93	
1983-076A	COSMOS 1485	14210	USSR	26 JUL	09 AUG 83	
1983-076B		14211	USSR	26 JUL	05 AUG 83	
1983-076C		14216	USSR	26 JUL	05 AUG 83	
1983-076D		14253	USSR	26 JUL	14 SEP 83	
1983-076E		14254	USSR	26 JUL	29 SEP 83	
1983-076F		14255	USSR	26 JUL	30 OCT 83	
1983-077B		14235	US	26 JUL	14 AUG 84	
1983-080A	COSMOS 1487	14245	USSR	05 AUG	28 SEP 83	
1983-080B		14246	USSR	05 AUG	19 AUG 83	
1983-080C		14249	USSR	05 AUG	11 AUG 83	
1983-080D		14291	USSR	05 AUG	14 AUG 83	
1983-080D		14291	USSR	05 AUG	26 AUG 83	

INTER- NATIONAL DESIGNATION		NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-080E				14292	USSR	05 AUG	11 SEP 83	
1983-080F				14295	USSR	05 AUG	28 AUG 83	
1983-081B				14250	JAPAN	05 AUG	27 SEP 83	
1983-081C				14287	JAPAN	05 AUG	25 MAY 91	
1983-082A	COSMOS 1488			14251	USSR	09 AUG	23 AUG 83	
1983-082B				14252	USSR	09 AUG	18 AUG 83	
1983-082C				14298	USSR	09 AUG	13 NOV 83	
1983-082D				14302	USSR	09 AUG	05 SEP 84	
1983-082E				14303	USSR	09 AUG	28 AUG 83	
1983-082F				14347	USSR	10 AUG	13 NOV 83	
1983-083A	COSMOS 1489			14256	USSR	10 AUG	23 SEP 83	
1983-083B				14257	USSR	10 AUG	14 AUG 83	
1983-083C				14263	USSR	10 AUG	11 AUG 83	
1983-083D				14371	USSR	10 AUG	24 SEP 83	
1983-084D				14261	USSR	10 AUG	11 AUG 83	
1983-084E				14262	USSR	10 AUG	12 AUG 83	
1983-085A	PROGRESS 17			14283	USSR	17 AUG	18 SEP 83	
1983-085B				14284	USSR	17 AUG	20 AUG 83	
1983-086A	PRC 13			14288	PRC	19 AUG	03 SEP 83	
1983-086B				14289	PRC	19 AUG	30 AUG 83	
1983-086C				14290	PRC	19 AUG	20 AUG 83	
1983-086D				14293	PRC	19 AUG	20 AUG 83	
1983-086E				14294	PRC	19 AUG	21 AUG 83	
1983-086F				14296	PRC	19 AUG	20 AUG 83	
1983-087A	COSMOS 1493			14299	USSR	23 AUG	06 SEP 83	
1983-087B				14300	USSR	23 AUG	31 AUG 83	
1983-087C				14304	USSR	23 AUG	30 AUG 83	
1983-087D				14322	USSR	23 AUG	18 SEP 83	
1983-087E				14323	USSR	23 AUG	06 DEC 83	
1983-087F				14324	USSR	23 AUG	10 OCT 84	
1983-087G				14325	USSR	23 AUG	29 OCT 83	
1983-087H				14513	USSR	23 AUG	15 DEC 83	
1983-088B				14308	USSR	25 AUG	28 AUG 83	
1983-088C				14309	USSR	25 AUG	26 AUG 83	
1983-088D				14310	USSR	25 AUG	06 JUL 84	
1983-088E				14311	USSR	25 AUG	27 OCT 86	
1983-089A	STS 8			14312	US	30 AUG	05 SEP 83	
1983-090B				14314	USSR	30 AUG	12 SEP 83	
1983-090C				14315	USSR	30 AUG	19 SEP 83	
1983-091A	COSMOS 1494			14316	USSR	31 AUG	26 SEP 85	
1983-091B				14317	USSR	31 AUG	24 MAY 85	
1983-091C				14703	USSR	31 AUG	07 APR 84	
1983-091D				14704	USSR	31 AUG	06 MAY 84	
1983-091E				14705	USSR	31 AUG	05 APR 84	
1983-091F				14706	USSR	31 AUG	09 APR 84	
1983-091G				14707	USSR	31 AUG	07 APR 84	
1983-091H				14708	USSR	31 AUG	06 APR 84	
1983-091I				14709	USSR	31 AUG	08 APR 84	
1983-091J				14710	USSR	31 AUG	09 APR 84	
1983-091K				14711	USSR	31 AUG	05 APR 84	
1983-091L				14718	USSR	31 AUG	06 APR 84	
1983-091M				14719	USSR	31 AUG	08 APR 84	

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1983-091P		14720	USSR	31 AUG	06 APR 84	
1983-091Q		14721	USSR	31 AUG	04 APR 84	
1983-091R		14744	USSR	31 AUG	04 APR 84	
1983-091S		14745	USSR	31 AUG	02 APR 84	
1983-091T		14746	USSR	31 AUG	04 APR 84	
1983-091U		14747	USSR	31 AUG	05 APR 84	
1983-091V		14748	USSR	31 AUG	10 APR 84	
1983-091W		14749	USSR	31 AUG	06 APR 84	
1983-091X		14750	USSR	31 AUG	05 APR 84	
1983-091Y		14751	USSR	31 AUG	06 APR 84	
1983-091Z		14752	USSR	31 AUG	09 APR 84	
1983-091AA		14753	USSR	31 AUG	08 APR 84	
1983-091AB		14754	USSR	31 AUG	10 APR 84	
1983-091AC		14755	USSR	31 AUG	10 APR 84	
COSMOS 1495						
1983-092A		14320	USSR	03 SEP	16 SEP 83	
1983-092B		14321	USSR	03 SEP	06 SEP 83	
1983-092C		14337	USSR	03 SEP	19 SEP 83	
1983-092D		14338	USSR	03 SEP	22 SEP 83	
1983-093A	COSMOS 1496	14326	USSR	07 SEP	19 OCT 83	
1983-093B		14327	USSR	07 SEP	11 SEP 83	
1983-094C		14332	US	08 SEP	21 MAY 84	
1983-095A	COSMOS 1497	14330	USSR	09 SEP	23 SEP 83	
1983-095B		14331	USSR	09 SEP	19 SEP 83	
1983-095C		14367	USSR	09 SEP	14 DEC 83	
1983-095D		14368	USSR	09 SEP	08 OCT 84	
1983-095E		14370	USSR	09 SEP	14 NOV 83	
1983-095F		14562	USSR	09 SEP	27 DEC 83	
1983-096A	COSMOS 1498	14334	USSR	14 SEP	29 SEP 83	
1983-096B		14335	USSR	14 SEP	19 SEP 83	
1983-096C		14336	USSR	14 SEP	19 SEP 83	
1983-096D		14374	USSR	14 SEP	16 OCT 83	
1983-096E		14375	USSR	14 SEP	04 OCT 83	
1983-096F		14376	USSR	14 SEP	05 OCT 83	
1983-097A	COSMOS 1499	14339	USSR	17 SEP	01 OCT 83	
1983-097B		14340	USSR	17 SEP	26 SEP 83	
1983-097C		14341	USSR	17 SEP	19 SEP 83	
1983-097D		14382	USSR	17 SEP	20 DEC 83	
1983-097E		14383	USSR	17 SEP	09 OCT 83	
1983-097F		14384	USSR	17 SEP	04 NOV 83	
1983-097G		14385	USSR	17 SEP	20 NOV 83	
1983-097H		14391	USSR	17 SEP	04 JAN 84	
1983-098B		14366	US	22 SEP	30 OCT 83	
1983-098C		14369	US	22 SEP	31 DEC 86	
1983-100B		14378	USSR	30 SEP	02 OCT 83	
1983-100C		14379	USSR	30 SEP	30 SEP 83	
1983-100D		14389	USSR	30 SEP	16 JUN 84	
1983-100E		14390	USSR	30 SEP	27 APR 84	
1983-101A	COSMOS 1501	14380	USSR	30 SEP	26 MAY 89	
1983-101B		14381	USSR	30 SEP	30 MAR 89	
1983-101C		14732	USSR	30 SEP	27 APR 84	
1983-101D		14733	USSR	30 SEP	28 APR 84	
1983-101E		14947	USSR	30 SEP	05 SEP 84	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-101F		14963	USSR	30 SEP	09 SEP 84	
1983-101G		15108	USSR	30 SEP	01 MAR 85	
1983-101H		15110	USSR	30 SEP	04 FEB 85	
1983-101J		15203	USSR	30 SEP	29 JUL 86	
1983-101K		15204	USSR	30 SEP	04 SEP 86	
1983-101L		15277	USSR	30 SEP	13 OCT 86	
1983-101M		15278	USSR	30 SEP	26 SEP 86	
1983-101N		15374	USSR	30 SEP	11 JUL 85	
1983-101P		15375	USSR	30 SEP	05 JUL 85	
1983-101Q		15425	USSR	30 SEP	01 FEB 87	
1983-101R		15426	USSR	30 SEP	07 JAN 87	
1983-101S		15512	USSR	30 SEP	06 OCT 85	
1983-101T		15513	USSR	30 SEP	03 JAN 86	
1983-101U		15586	USSR	30 SEP	23 DEC 85	
1983-101V		15587	USSR	30 SEP	20 NOV 85	
1983-101W		15588	USSR	30 SEP	20 DEC 85	
1983-101X		15594	USSR	30 SEP	02 NOV 85	
1983-101Y		15862	USSR	30 SEP	20 MAR 86	
1983-101Z		15863	USSR	30 SEP	05 MAR 86	
1983-101AA		15864	USSR	30 SEP	26 FEB 86	
1983-101AB		15865	USSR	30 SEP	25 MAR 86	
1983-102A	COSMOS 1502	14395	USSR	05 OCT	29 AUG 85	
1983-102B		14396	USSR	05 OCT	01 JUN 84	
1983-104A	COSMOS 1504	14403	USSR	14 OCT	06 DEC 83	
1983-104B		14404	USSR	14 OCT	17 OCT 83	
1983-105B		14423	ESA	19 OCT	04 MAY 87	
1983-106A	PROGRESS 18	14422	USSR	20 OCT	16 NOV 83	
1983-106B		14424	USSR	20 OCT	22 OCT 83	
1983-106C		14488	USSR	20 OCT	20 NOV 83	
1983-106D		14489	USSR	20 OCT	22 NOV 83	
1983-107A	COSMOS 1505	14425	USSR	21 OCT	04 NOV 83	
1983-107B		14426	USSR	21 OCT	30 DGT 83	
1983-107C		14481	USSR	21 OCT	09 DEC 84	
1983-107D		14482	USSR	21 OCT	03 JAN 84	
1983-107E		14560	USSR	21 OCT	01 FEB 84	
1983-107F		14561	USSR	21 OCT	26 FEB 84	
1983-107G		14674	USSR	21 OCT	01 FEB 84	
1983-110A	COSMOS 1507	14455	USSR	29 OCT	19 AUG 87	
1983-110B		14456	USSR	29 OCT	29 OCT 83	
1983-112A	COSMOS 1509	14490	USSR	17 NOV	01 DEC 83	
1983-112B		14498	USSR	17 NOV	22 NOV 83	
1983-112C		14535	USSR	17 NOV	27 DEC 83	
1983-112D		14536	USSR	17 NOV	05 DEC 83	
1983-112E		14539	USSR	17 NOV	03 DEC 83	
1983-112F		14540	USSR	17 NOV	07 DEC 83	
1983-112G		14541	USSR	17 NOV	02 DEC 83	
1983-113B		14553	US	18 NOV	02 SEP 91	
1983-113C		14554	US	18 NOV	02 OCT 91	
1983-113D		14609	US	18 NOV	19 JUN 92	
1983-114B		14517	USSR	23 NOV	15 DEC 83	
1983-114C		14518	USSR	23 NOV	10 DEC 83	
1983-116A	STS 9	14523	US	28 NOV	08 DEC 83	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983-117A	COSMOS 1511	14530	USSR	30 NOV	13 JAN 84	
1983-117B		14531	USSR	30 NOV	05 DEC 83	
1983-118B		14533	USSR	30 NOV	02 DEC 83	
1983-118C		14534	USSR	30 NOV	01 DEC 83	
1983-118D		14537	USSR	30 NOV	10 MAY 86	
1983-118E		14538	USSR	30 NOV	23 SEP 88	
1983-119A	COSMOS 1512	14542	USSR	07 DEC	21 DEC 83	
1983-119B		14543	USSR	07 DEC	17 DEC 83	
1983-119C		14544	USSR	07 DEC	09 DEC 83	
1983-119D		14545	USSR	07 DEC	09 DEC 83	
1983-119E		14573	USSR	07 DEC	16 FEB 84	
1983-119F		14574	USSR	07 DEC	30 DEC 83	
1983-119G		14575	USSR	07 DEC	28 APR 85	
1983-119H		14576	USSR	07 DEC	20 MAR 84	
1983-119J		14579	USSR	07 DEC	09 JUL 84	
1983-119K		14580	USSR	07 DEC	28 DEC 83	
1983-119L		14581	USSR	07 DEC	26 JUN 84	
1983-119M		14673	USSR	07 DEC	30 MAR 84	
1983-121A	COSMOS 1514	14549	USSR	14 DEC	19 DEC 83	
1983-121B		14550	USSR	14 DEC	19 DEC 83	
1983-123A	MOLNIYA 3-22	14570	USSR	21 DEC	18 AUG 93	
1983-123B		14571	USSR	21 DEC	14 FEB 84	
1983-123C		14572	USSR	21 DEC	04 FEB 84	
1983-124A	COSMOS 1516	14583	USSR	27 DEC	09 FEB 84	
1983-124B		14584	USSR	27 DEC	31 DEC 83	
1983-125A	COSMOS 1517	14585	USSR	27 DEC	27 DEC 83	
1983-125B		14586	USSR	28 DEC	29 DEC 83	
1983-126B		14588	USSR	28 DEC	08 FEB 84	
1983-126C		14589	USSR	28 DEC	04 FEB 84	
1983-127D		14593	USSR	29 DEC	31 DEC 83	
1983-127E		14594	USSR	29 DEC	29 DEC 83	
1983-127L		21860	USSR	29 DEC	18 AUG 92	
1984 LAUNCHES						
1983-034L		14936	USSR	19 APR	05 SEP 84	
1983-034M		14937	USSR	19 APR	19 AUG 84	
1984-002A	COSMOS 1530	14622	USSR	11 JAN	25 JAN 84	
1984-002B		14623	USSR	11 JAN	25 JAN 84	
1984-002C		14661	USSR	11 JAN	04 FEB 84	
1984-002D		14662	USSR	11 JAN	11 APR 84	
1984-002E		14663	USSR	11 JAN	16 MAR 84	
1984-002F		14664	USSR	11 JAN	26 MAR 84	
1984-002G		14929	USSR	11 JAN	21 JUN 85	
1984-004A	COSMOS 1532	14634	USSR	13 JAN	26 FEB 84	
1984-004B		14635	USSR	13 JAN	18 JAN 84	
1984-005B		14660	JAPAN	23 JAN	21 NOV 84	
1984-005C		14665	JAPAN	23 JAN	30 JUN 92	
1984-006A	COSMOS 1533	14666	USSR	26 JAN	09 FEB 84	
1984-006B		14667	USSR	26 JAN	13 FEB 84	
1984-006C		14712	USSR	26 JAN	05 MAY 84	
1984-006D		14713	USSR	26 JAN	11 APR 84	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984-006E			14714	USSR	26 JAN	11 APR 84	
1984-006F			14762	USSR	26 JAN	14 APR 84	
1984-007A	COSMOS 1534		14668	USSR	26 JAN	20 SEP 90	
1984-007B			14669	USSR	26 JAN	30 JUN 89	
1984-008B			14671	PRC	29 JAN	08 FEB 84	
1984-008C			14672	PRC	29 JAN	30 JAN 84	
1984-008D			14678	PRC	29 JAN	15 FEB 84	
1984-009B			14676	US	31 JAN	27 FEB 84	
1984-011A	STS 41B		14681	US	03 FEB	11 FEB 84	BT *
1984-011B	WESTAR 6		14688	US	03 FEB	16 NOV 84	CA *
1984-011C	IRT		14689	US	05 FEB	11 FEB 84	35 *
1984-011D	PALAPA B2		14692	INDNSA	06 FEB	16 NOV 84	CB *
1984-011G			14695	US	05 FEB	09 FEB 84	
1984-011H			14696	US	05 FEB	12 FEB 84	
1984-011J			14698	US	03 FEB	09 FEB 84	
1984-011K			14765	US	03 FEB	28 FEB 84	
1984-011L			14766	US	03 FEB	28 FEB 84	
1984-011M			14767	US	03 FEB	28 FEB 84	
1984-011N			14768	US	03 FEB	28 FEB 84	
1984-011P			14769	US	03 FEB	28 FEB 84	
1984-011Q			14770	US	03 FEB	28 FEB 84	
1984-011R			14771	US	03 FEB	28 FEB 84	
1984-011S			14772	US	03 FEB	28 FEB 84	
1984-011T			14773	US	03 FEB	28 FEB 84	
1984-011U			14824	US	06 FEB	03 FEB 90	
1984-011V			14970	US	03 FEB	16 JUL 87	
1984-011W			15556	US	03 FEB	24 APR 85	
1984-011X			15557	US	03 FEB	28 JUN 85	
1984-011Y			17839	US	06 FEB	12 APR 89	
1984-012E			14761	US	05 FEB	18 OCT 84	
1984-012G			14964	US	05 FEB	18 OCT 84	
1984-012H			14969	US	05 FEB	18 OCT 84	
1984-012M			19441	US	05 FEB	25 AUG 88	
1984-014A	SOYUZ T-10		14701	USSR	08 FEB	11 APR 84	
1984-014B			14702	USSR	08 FEB	10 FEB 84	
1984-014C			14916	USSR	08 FEB	26 MAY 84	
1984-014D			14917	USSR	08 FEB	15 MAY 84	
1984-014E			14918	USSR	08 FEB	20 MAY 84	
1984-015A	OHZORA		14722	JAPAN	14 FEB	19 JUL 89	
1984-015B			14723	JAPAN	14 FEB	20 APR 88	
1984-015C			14724	JAPAN	14 FEB	26 DEC 88	
1984-015D			17092	JAPAN	14 FEB	01 JAN 88	
1984-015E			17162	JAPAN	14 FEB	08 SEP 87	
1984-015F			19665	JAPAN	14 FEB	11 DEC 88	
1984-016B			14726	USSR	15 FEB	17 FEB 84	
1984-016C			14727	USSR	15 FEB	15 FEB 84	
1984-016D			14742	USSR	15 FEB	10 MAR 87	
1984-016E			14743	USSR	15 FEB	27 OCT 86	
1984-017A	COSMOS 1537		14737	USSR	16 FEB	01 MAR 84	
1984-017B			14738	USSR	16 FEB	23 FEB 84	
1984-017C			14774	USSR	16 FEB	02 MAR 84	
1984-017D			14775	USSR	16 FEB	18 MAR 84	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984-017E		14776	USSR	16 FEB	02 MAR 84	
1984-017F		14777	USSR	16 FEB	08 MAR 84	
1984-017G		14778	USSR	16 FEB	25 MAY 84	
1984-017H		14779	USSR	16 FEB	04 MAR 84	
1984-018A	PROGRESS 19	14757	USSR	21 FEB	01 APR 84	
1984-018B		14758	USSR	21 FEB	23 FEB 84	
1984-020A	COSMOS 1539	14763	USSR	28 FEB	09 APR 84	
1984-020B		14764	USSR	28 FEB	03 MAR 84	
1984-020C		14901	USSR	28 FEB	10 APR 84	
1984-021C		14782	US	01 MAR	21 JAN 92	
1984-022B		14784	USSR	02 MAR	03 MAR 84	
1984-022C		14785	USSR	02 MAR	03 MAR 84	
1984-022D		14788	USSR	02 MAR	27 OCT 86	
1984-022E		14789	USSR	02 MAR	10 FEB 90	
1984-023B		14787	ESA	05 MAR	06 APR 93	
1984-024B		14791	USSR	06 MAR	06 APR 84	
1984-024C		14792	USSR	06 MAR	31 MAR 84	
1984-025A	COSMOS 1542	14793	USSR	07 MAR	21 MAR 84	
1984-025B		14794	USSR	07 MAR	21 MAR 84	
1984-025C		14847	USSR	07 MAR	05 MAY 84	
1984-025D		14848	USSR	07 MAR	13 OCT 85	
1984-025E		14851	USSR	07 MAR	29 MAY 84	
1984-025F		14852	USSR	07 MAR	29 MAY 84	
1984-025G		14856	USSR	07 MAR	05 JUN 84	
1984-026A	COSMOS 1543	14797	USSR	10 MAR	05 APR 84	
1984-026B		14798	USSR	10 MAR	27 MAR 84	
1984-028B		14822	USSR	16 MAR	18 MAR 84	
1984-028C		14823	USSR	16 MAR	17 MAR 84	
1984-028E		14829	USSR	16 MAR	27 OCT 86	
1984-029B		14826	USSR	16 MAR	26 APR 84	
1984-029C		14827	USSR	16 MAR	20 APR 84	
1984-030A	COSMOS 1545	14849	USSR	21 MAR	05 APR 84	
1984-030B		14850	USSR	21 MAR	29 MAR 84	
1984-030C		14855	USSR	21 MAR	15 APR 84	
1984-030D		14889	USSR	21 MAR	29 MAR 84	
1984-030E		14890	USSR	21 MAR	04 MAY 84	
1984-030F		14891	USSR	21 MAR	29 MAY 84	
1984-030G		14892	USSR	21 MAR	11 APR 84	
1984-030H		14893	USSR	21 MAR	08 APR 84	
1984-030J		14895	USSR	21 MAR	10 MAY 84	
1984-030K		14896	USSR	21 MAR	25 APR 84	
1984-031B		14868	USSR	29 MAR	31 MAR 84	
1984-031C		14869	USSR	29 MAR	29 MAR 84	
1984-031E		14888	USSR	29 MAR	27 OCT 86	
1984-032A	SOYUZ T-11	14872	USSR	03 APR	02 OCT 84	
1984-032B		14873	USSR	03 APR	05 APR 84	
1984-032C		15345	USSR	03 APR	12 DEC 86	
1984-032D		15346	USSR	03 APR	05 DEC 84	
1984-033B		14885	USSR	04 APR	14 MAY 84	
1984-033C		14886	USSR	04 APR	01 MAY 84	
1984-034A	STS 41C	14897	US	06 APR	13 APR 84	
1984-034B	LDEF	14898	US	06 APR	20 JAN 90	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984-054G	COSMOS 1571	15043	USSR	01 JUN	22 AUG 86	
1984-054H		15044	USSR	01 JUN	16 JUN 84	
1984-054J		15045	USSR	01 JUN	20 JUN 84	
1984-054K		15048	USSR	01 JUN	04 DEC 84	
1984-054L		15049	USSR	01 JUN	10 SEP 84	
1984-054M		15050	USSR	01 JUN	13 JUL 84	
1984-054N		15062	USSR	01 JUN	22 AUG 84	
1984-055B		15028	USSR	06 JUN	28 JUL 84	
1984-055C		15029	USSR	06 JUN	10 JUL 84	
1984-057A		15034	US	09 JUN	24 OCT 84	
1984-057B	COSMOS 1572	15035	US	09 JUN	11 JUN 84	
1984-058A		15036	USSR	11 JUN	26 JUN 84	
1984-058B		15037	USSR	11 JUN	24 JUN 84	
1984-058C		15038	USSR	11 JUN	16 JUN 84	
1984-058D		15065	USSR	11 JUN	20 OCT 84	
1984-058E		15066	USSR	11 JUN	25 NOV 84	
1984-058F		15067	USSR	11 JUN	17 APR 86	
1984-058G		15068	USSR	11 JUN	01 JUL 84	
1984-058H		15069	USSR	11 JUN	22 SEP 84	
1984-058J		15072	USSR	11 JUN	08 SEP 84	
1984-060A	COSMOS 1573	15046	USSR	15 JUN	29 JUN 84	
1984-060B		15047	USSR	15 JUN	22 JUN 84	
1984-060C		15048	USSR	15 JUN	09 JUL 84	
1984-060D		15088	USSR	15 JUN	30 JUL 84	
1984-060E		15089	USSR	15 JUN	13 JUL 84	
1984-061A		15051	USSR	19 JUN	28 JUN 84	
1984-061B		15052	USSR	19 JUN	24 JUN 84	
1984-061C		15079	USSR	19 JUN	01 JUL 84	
1984-061D		15082	USSR	19 JUN	15 JUL 84	
1984-061E		15083	USSR	19 JUN	30 JUN 84	
1984-061F	COSMOS 1575	15084	USSR	19 JUN	30 JUN 84	
1984-061G		15086	USSR	19 JUN	05 JUL 84	
1984-063B		15058	USSR	22 JUN	24 JUN 84	
1984-063C		15059	USSR	22 JUN	22 JUN 84	
1984-063D		15075	USSR	22 JUN	27 OCT 86	
1984-064A		15060	USSR	22 JUN	07 JUL 84	
1984-064B		15061	USSR	22 JUN	28 JUN 84	
1984-064C		15101	USSR	22 JUN	28 JUN 84	
1984-064D		15102	USSR	22 JUN	10 AUG 84	
1984-064E		15103	USSR	22 JUN	18 JUL 84	
1984-064F	COSMOS 1576	15104	USSR	22 JUN	12 JUL 84	
1984-065A		15063	US	22 JUN	20 JUL 84	
1984-065B		15064	US	25 JUN	18 OCT 84	
1984-066A		15070	USSR	25 JUN	27 JUL 84	
1984-066B		15073	USSR	26 JUN	24 AUG 84	
1984-066C		15074	USSR	26 JUN	29 JUN 84	
1984-066D		15222	USSR	26 JUN	01 JUL 84	
1984-068A		15080	USSR	28 JUN	25 AUG 84	
1984-068B		15081	USSR	28 JUN	10 JAN 93	
1984-069B	COSMOS 1580	15327	USSR	28 JUN	03 APR 90	
1984-069C		15328	USSR	29 JUN	30 SEP 84	
1984-070A		15090	USSR	29 JUN	05 NOV 84	
1984-070A		15090	USSR	30 JUN	13 JUL 84	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
NAME									
1984-070B	COSMOS 1582	15091	USSR	30 JUN	25 JUL 84				
1984-070C		15092	USSR	30 JUN	06 JUL 84				
1984-070D		15093	USSR	30 JUN	05 JUL 84				
1984-070E		15094	USSR	30 JUN	06 JUL 84				
1984-070F		15115	USSR	30 JUN	15 JUL 84				
1984-070G		15116	USSR	30 JUN	01 AUG 84				
1984-070H		15117	USSR	30 JUN	16 JUL 84				
1984-070J		15118	USSR	30 JUN	18 JUL 84				
1984-071B		15096	USSR	03 JUL	31 AUG 84				
1984-071C		15097	USSR	03 JUL	10 AUG 84				
1984-073A	SOYUZ T-12	15119	USSR	17 JUL	29 JUL 84				
1984-073B		15120	USSR	17 JUL	20 JUL 84				
1984-073C		15136	USSR	17 JUL	28 AUG 85				
1984-073D		15140	USSR	17 JUL	02 AUG 84				
1984-074A		15121	USSR	19 JUL	27 JUL 84				
1984-074B	COSMOS 1583	15122	USSR	19 JUL	09 SEP 84				
1984-074C		15150	USSR	19 JUL	14 AUG 84				
1984-074D		15151	USSR	19 JUL	15 AUG 84				
1984-074E		15154	USSR	19 JUL	18 AUG 84				
1984-074F		15155	USSR	19 JUL	08 AUG 84				
1984-075A		15123	USSR	24 JUL	07 AUG 84				
1984-075B		15124	USSR	24 JUL	01 AUG 84				
1984-075C		15125	USSR	24 JUL	27 JUL 84				
1984-075D		15126	USSR	24 JUL	01 FEB 85				
1984-075E		15169	USSR	24 JUL	19 DEC 84				
1984-075F	COSMOS 1584	15170	USSR	24 JUL	30 NOV 86				
1984-075G		15173	USSR	24 JUL	26 OCT 84				
1984-075H		15178	USSR	24 JUL	25 OCT 84				
1984-075J		15179	USSR	24 JUL	07 SEP 84				
1984-075K		15180	USSR	24 JUL	10 AUG 84				
1984-076A		15131	USSR	27 JUL	29 JUL 84				
1984-076B		15132	USSR	27 JUL	25 AUG 84				
1984-076C		15185	USSR	27 JUL	13 AUG 84				
1984-076D		15186	USSR	27 JUL	11 AUG 84				
1984-076E		15187	USSR	27 JUL	14 AUG 84				
1984-076F	COSMOS 1585	15191	USSR	27 JUL	28 SEP 84				
1984-077A		15142	USSR	31 JUL	03 AUG 84				
1984-077B		15143	USSR	31 JUL	03 AUG 84				
1984-077C		15145	USSR	01 AUG	03 AUG 84				
1984-077D		15146	USSR	01 AUG	02 AUG 84				
1984-077E		15160	USSR	01 AUG	12 AUG 87				
1984-077F		15161	USSR	01 AUG	27 OCT 86				
1984-077G		15148	USSR	02 AUG	19 SEP 84				
1984-077H		15149	USSR	02 AUG	07 SEP 84				
1984-077I		15153	USSR	02 AUG	11 OCT 84				
1984-080D	COSMOS 1587	15162	JAPAN	02 AUG	12 AUG 84				
1984-081C		15165	ESA	04 AUG	06 APR 90				
1984-082A		15163	USSR	06 AUG	31 AUG 84				
1984-082B		15164	USSR	06 AUG	18 AUG 84				
1984-082C		15238	USSR	06 AUG	18 NOV 84				
1984-082D		15239	USSR	06 AUG	15 SEP 84				
1984-082E		15240	USSR	06 AUG	27 DEC 84				

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984-082F	COSMOS 1588	15241	USSR	06 AUG	26 JAN 85	
1984-082G		15242	USSR	06 AUG	26 NOV 86	
1984-082H		15243	USSR	06 AUG	06 MAR 85	
1984-083A		15167	USSR	07 AUG	17 FEB 88	
1984-083B		15168	USSR	07 AUG	08 AUG 84	
1984-083C		16617	USSR	07 AUG	13 JUL 86	
1984-083D		16626	USSR	07 AUG	27 MAR 86	
1984-083E		16627	USSR	07 AUG	11 OCT 86	
1984-083F		16628	USSR	07 AUG	08 MAR 86	
1984-083G		16629	USSR	07 AUG	04 APR 86	
1984-083H		16632	USSR	07 AUG	04 APR 86	
1984-083I		16633	USSR	07 AUG	30 MAY 88	
1984-083J		16634	USSR	07 AUG	29 APR 86	
1984-083K		16635	USSR	07 AUG	21 APR 86	
1984-083L		16636	USSR	07 AUG	24 APR 86	
1984-083M		16637	USSR	07 AUG	26 APR 86	
1984-083N		16638	USSR	07 AUG	17 MAY 86	
1984-083O		16639	USSR	07 AUG	01 DEC 87	
1984-083P		16640	USSR	07 AUG	05 APR 86	
1984-083R		16641	USSR	07 AUG	31 MAR 86	
1984-083S		16642	USSR	07 AUG	04 APR 86	
1984-083T		16651	USSR	07 AUG	13 APR 86	
1984-083U		16652	USSR	07 AUG	13 MAY 86	
1984-083V		16653	USSR	07 AUG	20 APR 86	
1984-083W		16654	USSR	07 AUG	25 MAR 86	
1984-083X		16655	USSR	07 AUG	08 JUL 86	
1984-083Y		16656	USSR	07 AUG	16 MAY 86	
1984-083Z		16664	USSR	07 AUG	11 APR 86	
1984-083AA		16665	USSR	07 AUG	20 APR 86	
1984-083AB		16666	USSR	07 AUG	11 APR 86	
1984-083AC		16672	USSR	07 AUG	31 MAY 86	
1984-083AD		16673	USSR	07 AUG	18 APR 89	
1984-083AE		16674	USSR	07 AUG	20 APR 86	
1984-083AF		16675	USSR	07 AUG	06 JUN 86	
1984-083AG		16689	USSR	07 AUG	28 MAY 86	
1984-083AH		16690	USSR	07 AUG	02 JUL 86	
1984-083AJ		16691	USSR	07 AUG	21 MAY 86	
1984-083AK		16702	USSR	07 AUG	17 JUL 86	
1984-083AL		16703	USSR	07 AUG	02 AUG 86	
1984-083AM		16704	USSR	07 AUG	30 JUN 86	
1984-083AN		16705	USSR	07 AUG	01 JUN 86	
1984-083AP		16706	USSR	07 AUG	21 MAY 86	
1984-083AQ		16707	USSR	07 AUG	13 JUN 86	
1984-083AR		16708	USSR	07 AUG	19 JUN 86	
1984-083AS		16709	USSR	07 AUG	16 JUL 86	
1984-083AT		16710	USSR	07 AUG	31 MAY 86	
1984-083AU		16711	USSR	07 AUG	23 MAY 86	
1984-083AV		16712	USSR	07 AUG	19 JUN 86	
1984-083AW		16713	USSR	07 AUG	13 MAY 86	
1984-083AX		15183	USSR	10 AUG	11 SEP 84	
1984-085B		15184	USSR	10 AUG	05 SEP 84	
1984-085C		15193	USSR	14 AUG	28 AUG 84	
1984-086A	PROGRESS 23					

INTER- NATIONAL DESIGNATION		NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984-086B				15194	USSR	14 AUG	17 AUG 84	
1984-087A				15197	USSR	16 AUG	30 AUG 84	
1984-087B		COSMOS 1590		15198	USSR	16 AUG	23 AUG 84	
1984-087C				15228	USSR	16 AUG	12 SEP 84	
1984-087D				15229	USSR	16 AUG	09 SEP 84	
1984-087E				15230	USSR	16 AUG	05 SEP 84	
1984-087F				15231	USSR	16 AUG	02 OCT 84	
1984-089B				15215	USSR	24 AUG	17 SEP 84	
1984-089C				15216	USSR	24 AUG	13 SEP 84	
1984-090B				15220	USSR	24 AUG	27 AUG 84	
1984-090C				15221	USSR	24 AUG	25 AUG 84	
1984-090D				15224	USSR	24 AUG	18 APR 85	
1984-090E				15225	USSR	24 AUG	27 OCT 86	
1984-092A				15232	USSR	30 AUG	13 SEP 84	
1984-092B		COSMOS 1591		15233	USSR	30 AUG	05 SEP 84	
1984-092C				15289	USSR	30 AUG	15 SEP 84	
1984-092D				15290	USSR	30 AUG	14 OCT 84	
1984-092E				15291	USSR	30 AUG	23 SEP 84	
1984-092F				15294	USSR	30 AUG	28 SEP 84	
1984-092G				15295	USSR	30 AUG	29 SEP 84	
1984-092H				15296	USSR	30 AUG	15 SEP 84	
1984-093A				15234	US	30 AUG	05 SEP 84	
1984-093A		STS 41D		15257	USSR	04 SEP	18 SEP 84	
1984-094A		COSMOS 1592		15258	USSR	04 SEP	15 SEP 84	
1984-094B				15298	USSR	04 SEP	26 SEP 84	
1984-094C				15299	USSR	04 SEP	24 OCT 84	
1984-094D				15300	USSR	04 SEP	02 OCT 84	
1984-094E				15301	USSR	04 SEP	23 SEP 84	
1984-094F				15302	USSR	04 SEP	23 SEP 84	
1984-094G				15262	USSR	04 SEP	06 SEP 84	
1984-095D				15263	USSR	04 SEP	05 SEP 84	
1984-095E				15268	USSR	07 SEP	25 OCT 84	
1984-096B				15269	USSR	07 SEP	09 OCT 84	
1984-096C				15279	PRC	12 SEP	29 SEP 84	
1984-098A		PRC 16		15280	PRC	12 SEP	25 SEP 84	
1984-098B				15285	PRC	12 SEP	13 SEP 84	
1984-098C				15286	PRC	12 SEP	13 SEP 84	
1984-098D				15287	PRC	13 SEP	26 SEP 84	
1984-099A		COSMOS 1597		15288	USSR	13 SEP	19 SEP 84	
1984-099B				15320	USSR	13 SEP	04 OCT 84	
1984-099C				15321	USSR	13 SEP	27 SEP 84	
1984-099D				15322	USSR	13 SEP	29 SEP 84	
1984-099E				15323	USSR	13 SEP	28 SEP 84	
1984-099F				15309	US	21 SEP	19 NOV 84	
1984-101B				15310	US	21 SEP	12 JUN 85	
1984-101C				15319	USSR	25 SEP	20 NOV 84	
1984-102A		COSMOS 1599		15319	USSR	25 SEP	27 SEP 84	
1984-102B				15324	USSR	27 SEP	11 OCT 84	
1984-103A		COSMOS 1600		15325	USSR	27 SEP	14 OCT 84	
1984-103B				15356	USSR	27 SEP	29 OCT 86	
1984-103C				15357	USSR	27 SEP	23 MAR 85	
1984-103D				15358	USSR	27 SEP	01 MAY 85	

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DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984-103F		15361	USSR	27 SEP	17 DEC 84	
1984-103G		15364	USSR	27 SEP	08 JAN 85	
1984-103H		15373	USSR	27 SEP	26 OCT 84	
1984-104A	COSMOS 1601	15326	USSR	27 SEP	29 NOV 89	
1984-104B		15329	USSR	27 SEP	09 SEP 89	
1984-104C		15564	USSR	27 SEP	14 NOV 85	
1984-104D		15565	USSR	27 SEP	11 NOV 85	
1984-104E		15566	USSR	27 SEP	15 DEC 85	
1984-104F		15567	USSR	27 SEP	20 DEC 85	
1984-104G		15607	USSR	27 SEP	22 MAR 88	
1984-104H		15608	USSR	27 SEP	03 MAR 88	
1984-104J		15608	USSR	27 SEP	25 MAY 88	
1984-104K		15980	USSR	27 SEP	20 MAR 88	
1984-104M		15981	USSR	27 SEP	04 MAY 88	
1984-104N		15984	USSR	27 SEP	03 APR 88	
1984-104P		15985	USSR	27 SEP	07 MAY 88	
1984-104Q		15987	USSR	27 SEP	20 MAY 88	
1984-104R		15988	USSR	27 SEP	17 MAR 88	
1984-104S		15989	USSR	27 SEP	17 MAR 88	
1984-104T		15990	USSR	27 SEP	21 APR 88	
1984-104U		16003	USSR	27 SEP	17 APR 88	
1984-104V		16004	USSR	27 SEP	06 MAY 88	
1984-104W		16005	USSR	27 SEP	30 MAR 88	
1984-104X		16006	USSR	27 SEP	26 MAR 88	
1984-104Y		16067	USSR	27 SEP	15 APR 88	
1984-104Z		16068	USSR	27 SEP	17 MAR 88	
1984-104AA		16069	USSR	27 SEP	07 APR 88	
1984-104AB		16077	USSR	27 SEP	08 MAY 88	
1984-104AC		16109	USSR	27 SEP	11 JUN 88	
1984-104AD		16954	USSR	27 SEP	13 APR 88	
1984-104AE		16955	USSR	27 SEP	06 AUG 88	
1984-104AF		17161	USSR	27 SEP	18 JUN 88	
1984-106D		15336	USSR	28 SEP	15 MAY 88	
1984-106E		15337	USSR	28 SEP	01 OCT 84	
1984-106G		17358	USSR	28 SEP	29 SEP 84	
1984-106H		22140	USSR	28 SEP	03 JAN 93	
1984-106J		22141	USSR	28 SEP	06 DEC 92	
1984-106K		22142	USSR	28 SEP	11 OCT 92	
1984-106L		22143	USSR	28 SEP	10 OCT 92	
1984-106M		22144	USSR	28 SEP	11 OCT 92	
1984-106N		22145	USSR	28 SEP	19 OCT 92	
1984-106P		22146	USSR	28 SEP	05 NOV 92	
1984-106Q		22147	USSR	28 SEP	27 MAR 93	
1984-106R		22148	USSR	28 SEP	08 OCT 92	
1984-106S		22149	USSR	28 SEP	13 NOV 92	
1984-106T		22150	USSR	28 SEP	11 OCT 92	
1984-106U		22151	USSR	28 SEP	14 OCT 92	
1984-106V		22152	USSR	28 SEP	14 OCT 92	
1984-106W		22153	USSR	28 SEP	16 NOV 92	
1984-106X		22154	USSR	28 SEP	23 OCT 92	
1984-106Y		22155	USSR	28 SEP	20 OCT 92	
1984-106Z		22156	USSR	28 SEP	22 OCT 92	
					14 OCT 92	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECAYED OBJECTS							
1984-106AA			22157	USSR	28 SEP	10 OCT 92	
1984-106AB			22158	USSR	28 SEP	20 NOV 92	
1984-106AC			22159	USSR	28 SEP	11 OCT 92	
1984-106AD			22160	USSR	28 SEP	13 OCT 92	
1984-107B			15351	USSR	04 OCT	02 DEC 84	
1984-107C			15352	USSR	04 OCT	07 NOV 84	
1984-108A		STS 41G	15353	US	05 OCT	13 OCT 84	BT*
1984-110B			15363	US	12 OCT	26 JUL 88	
1984-110C			15371	US	12 OCT	20 SEP 87	
1984-110D			15372	US	12 OCT	04 JUL 87	
1984-112B			15502	USSR	31 OCT	28 MAR 85	
1984-112D			15504	USSR	31 OCT	01 OCT 85	
1984-112E			15507	USSR	31 OCT	07 FEB 85	
1984-112F			15508	USSR	31 OCT	03 JUL 85	
1984-112G			15511	USSR	31 OCT	05 MAR 85	
1984-113A		STS 51A	15382	US	08 NOV	16 NOV 84	
1984-114D			15389	ESA	10 NOV	27 OCT 86	BT*
1984-116A		COSMOS 1608	15393	USSR	14 NOV	17 DEC 84	
1984-116B			15394	USSR	14 NOV	17 NOV 84	
1984-116C			15397	USSR	14 NOV	16 NOV 84	
1984-117A		COSMOS 1609	15395	USSR	14 NOV	28 NOV 84	
1984-117B			15396	USSR	14 NOV	25 NOV 84	
1984-117C			15400	USSR	14 NOV	17 NOV 84	
1984-117D			15408	USSR	14 NOV	06 JUL 85	
1984-117E			15409	USSR	14 NOV	26 APR 87	
1984-117F			15410	USSR	14 NOV	01 MAY 85	
1984-117G			15411	USSR	14 NOV	01 DEC 84	
1984-117H			15412	USSR	14 NOV	02 APR 85	
1984-117J			15413	USSR	14 NOV	08 MAR 85	
1984-117K			15418	USSR	14 NOV	30 DEC 84	
1984-117L			15419	USSR	14 NOV	22 FEB 85	
1984-117M			15421	USSR	14 NOV	11 DEC 84	
1984-117N			15428	USSR	14 NOV	24 DEC 84	
1984-119A		COSMOS 1611	15403	USSR	21 NOV	11 JAN 85	
1984-119B			15404	USSR	21 NOV	25 NOV 84	
1984-119C			15405	USSR	21 NOV	22 NOV 84	
1984-120A		COSMOS 1612	15406	USSR	27 NOV	31 JAN 85	
1984-120B			15407	USSR	27 NOV	02 DEC 84	
1984-121A		COSMOS 1613	15414	USSR	29 NOV	24 DEC 84	
1984-121B			15415	USSR	29 NOV	12 DEC 84	
1984-121C			15416	USSR	29 NOV	06 DEC 84	
1984-121D			15417	USSR	29 NOV	01 DEC 84	
1984-121E			15456	USSR	29 NOV	05 MAY 87	
1984-121F			15457	USSR	29 NOV	13 APR 85	
1984-121G			15458	USSR	29 NOV	05 JUL 85	
1984-121H			15459	USSR	29 NOV	05 OCT 85	
1984-121J			15460	USSR	29 NOV	12 MAY 85	
1984-121K			15461	USSR	29 NOV	11 JAN 85	
1984-121L			15462	USSR	29 NOV	08 JAN 85	
1984-121M			15463	USSR	29 NOV	21 JAN 85	
1984-122B			15424	US	04 DEC	23 DEC 84	
1984-123C			15441	US	12 DEC	13 NOV 92	

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1984-124B		15430	USSR	14 DEC	11 JAN 85	
1984-124C		15431	USSR	14 DEC	20 JAN 85	
1984-124D		15435	USSR	14 DEC	21 JAN 85	
1984-124E		15436	USSR	14 DEC	12 JAN 85	
1984-124F		15437	USSR	14 DEC	09 JAN 85	
1984-124G		15438	USSR	14 DEC	20 DEC 84	
1984-125B		15433	USSR	15 DEC	16 DEC 84	
1984-125C		15434	USSR	15 DEC	16 DEC 84	
1984-125E	V1 DESCENT CRAFT	15858	USSR	15 DEC	10 JUN 85	
1984-125F	VEGA 1 BALLOON	15859	USSR	15 DEC	10 JUN 85	
1984-126A	COSMOS 1614	15442	USSR	19 DEC	19 DEC 84	
1984-126B		15443	USSR	19 DEC	21 DEC 84	
1984-126C		15444	USSR	19 DEC	20 DEC 84	
1984-126D		15445	USSR	19 DEC	20 DEC 84	
1984-127A	COSMOS 1615	15446	USSR	20 DEC	15 APR 90	
1984-127B		15448	USSR	20 DEC	09 APR 89	
1984-128C		15451	USSR	21 DEC	23 DEC 84	
1984-128D		15452	USSR	21 DEC	23 DEC 84	
1984-128E	V2 DESCENT CRAFT	15856	USSR	21 DEC	14 JUN 85	
1984-128F	VEGA 2 BALLOON	15857	USSR	21 DEC	14 JUN 85	
1984-129C		15455	US	22 DEC	17 JAN 85	

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1985-001C		15466	JAPAN	07 JAN	22 MAY 85	
1985-002A	COSMOS 1616	15467	USSR	09 JAN	04 MAR 85	
1985-002B		15468	USSR	09 JAN	15 JAN 85	
1985-004B		15477	USSR	16 JAN	27 MAR 85	
1985-004C		15478	USSR	16 JAN	21 MAR 85	
1985-005A	COSMOS 1623	15479	USSR	16 JAN	30 JAN 85	
1985-005B		15480	USSR	16 JAN	05 FEB 85	
1985-005C		15498	USSR	16 JAN	09 NOV 85	
1985-005D		15499	USSR	16 JAN	31 MAR 87	
1985-005E		15500	USSR	16 JAN	22 JUL 85	
1985-005F		15501	USSR	16 JAN	19 MAY 85	
1985-005G		15509	USSR	16 JAN	26 MAY 85	
1985-005H		15510	USSR	16 JAN	26 FEB 85	
1985-007B		15485	USSR	18 JAN	20 JAN 85	
1985-007C		15486	USSR	18 JAN	19 JAN 85	
1985-007E		15488	USSR	18 JAN	21 SEP 85	
1985-008A		15492	USSR	23 JAN	25 JAN 85	
1985-008B	COSMOS 1625	15493	USSR	23 JAN	24 JAN 85	
1985-009C		15497	USSR	24 JAN	02 FEB 89	
1985-010A	STS 51C	15496	US	24 JAN	27 JAN 85	
1985-012A	COSMOS 1628	15514	USSR	06 FEB	20 FEB 85	
1985-012B		15515	USSR	06 FEB	21 FEB 85	
1985-012C		15568	USSR	06 FEB	12 SEP 85	
1985-012D		15569	USSR	06 FEB	14 JUL 87	
1985-012E		15570	USSR	06 FEB	31 MAY 85	
1985-012F		15571	USSR	06 FEB	28 JUL 85	
1985-012G		15572	USSR	06 FEB	09 JAN 86	
1985-012H		15573	USSR	06 FEB	26 MAR 85	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985-012J			15579	USSR	06 FEB	14 MAR 85	
1985-012K			15580	USSR	06 FEB	18 MAR 85	
1985-012L			15591	USSR	06 FEB	11 APR 85	
1985-015D			15563	ESA	08 FEB	05 APR 86	
1985-016B			15575	USSR	21 FEB	24 FEB 85	
1985-016C			15576	USSR	21 FEB	22 FEB 85	
1985-016D			15577	USSR	21 FEB	27 OCT 86	
1985-016E			15578	USSR	21 FEB	27 OCT 86	
1985-017A	COSMOS 1630		15582	USSR	27 FEB	23 APR 85	
1985-017B			15583	USSR	27 FEB	05 MAR 85	
1985-018A	COSMOS 1631		15584	USSR	27 FEB	08 DEC 90	
1985-018B			15585	USSR	27 FEB	20 OCT 89	
1985-019A	COSMOS 1632		15589	USSR	01 MAR	15 MAR 85	
1985-019B			15590	USSR	01 MAR	04 MAR 85	
1985-019C			15609	USSR	01 MAR	26 MAR 85	
1985-019D			15610	USSR	01 MAR	17 MAR 85	
1985-019E			15611	USSR	01 MAR	24 MAR 85	
1985-019F			15612	USSR	01 MAR	20 MAR 85	
1985-021C			15613	US	13 MAR	20 SEP 92	
1985-024B			15627	USSR	22 MAR	25 MAR 85	
1985-024C			15628	USSR	22 MAR	23 MAR 85	
1985-024E			15632	USSR	22 MAR	07 AUG 86	
1985-024F			15633	USSR	22 MAR	20 JAN 86	
1985-026A	COSMOS 1643		15634	USSR	25 MAR	18 OCT 85	
1985-026B			15635	USSR	25 MAR	29 MAR 85	
1985-027A	COSMOS 1644		15636	USSR	03 APR	17 APR 85	
1985-027B			15637	USSR	03 APR	07 APR 85	
1985-027C			15638	USSR	03 APR	06 APR 85	
1985-027D			15639	USSR	03 APR	07 APR 85	
1985-027E			15640	USSR	03 APR	07 APR 85	
1985-027F			15647	USSR	03 APR	07 JAN 86	
1985-027G			15648	USSR	03 APR	15 OCT 85	
1985-027H			15649	USSR	03 APR	26 APR 85	
1985-027J			15650	USSR	03 APR	09 JUL 87	
1985-027K			15651	USSR	03 APR	26 SEP 85	
1985-027L			15652	USSR	03 APR	14 JUN 85	
1985-027M			15657	USSR	03 APR	07 AUG 85	
1985-027N			15658	USSR	03 APR	16 JUN 85	
1985-028A	STS 51D		15641	US	12 APR	19 APR 85	
1985-029A	COSMOS 1645		15645	USSR	16 APR	29 APR 85	
1985-029B			15646	USSR	16 APR	10 MAY 85	
1985-029C			15667	USSR	16 APR	23 JUN 85	
1985-029D			15668	USSR	16 APR	13 MAY 85	
1985-029E			15669	USSR	16 APR	04 JUN 85	
1985-029F			15670	USSR	16 APR	19 MAY 85	
1985-029G			15671	USSR	16 APR	01 MAY 85	
1985-030A	COSMOS 1646		15653	USSR	18 APR	12 MAY 88	
1985-030B			15654	USSR	18 APR	19 APR 85	
1985-030C			18619	USSR	18 APR	27 DEC 87	
1985-030D			18620	USSR	18 APR	25 MAR 88	
1985-030E			18621	USSR	18 APR	06 DEC 87	
1985-030F			18622	USSR	18 APR	06 JAN 88	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985-030G		18623	USSR	18 APR	03 JAN 88	
1985-030H		18624	USSR	18 APR	08 DEC 87	
1985-030J		18628	USSR	18 APR	15 JAN 88	
1985-030K		18629	USSR	18 APR	15 JAN 88	
1985-030L		18630	USSR	18 APR	06 JAN 88	
1985-030M		18652	USSR	18 APR	30 DEC 87	
1985-030N		18653	USSR	18 APR	20 JAN 88	
1985-030P		18654	USSR	18 APR	02 APR 88	
1985-030Q		18655	USSR	18 APR	24 AUG 88	
1985-030R		18656	USSR	18 APR	31 DEC 87	
1985-030S		18657	USSR	18 APR	22 JAN 88	
1985-030T		18658	USSR	18 APR	09 FEB 88	
1985-030U		18659	USSR	18 APR	15 JAN 88	
1985-030V		18660	USSR	18 APR	28 DEC 87	
1985-030W		18661	USSR	18 APR	12 FEB 88	
1985-030X		18662	USSR	18 APR	02 JAN 88	
1985-030Y		18663	USSR	18 APR	28 JUL 88	
1985-030Z		18664	USSR	18 APR	21 DEC 87	
1985-030AA		18799	USSR	18 APR	05 JUL 88	
1985-031A	COSMOS 1647	15655	USSR	19 APR	11 JUN 85	
1985-031B		15656	USSR	19 APR	23 APR 85	
1985-032A	COSMOS 1648	15659	USSR	25 APR	06 MAY 85	
1985-032B		15660	USSR	25 APR	27 APR 85	
1985-032C		15672	USSR	25 APR	10 MAY 85	
1985-032D		15673	USSR	25 APR	15 MAY 85	
1985-032E		15674	USSR	25 APR	21 MAY 85	
1985-032F		15675	USSR	25 APR	11 MAY 85	
1985-032G		15676	USSR	25 APR	09 MAY 85	
1985-033A		15661	USSR	26 APR	01 JAN 93	
1985-033B		15662	USSR	26 APR	20 JUN 85	
1985-033C		15663	USSR	26 APR	28 JUN 85	
1985-033D		15664	USSR	26 APR	01 JAN 93	
1985-034A	STS 51B	15665	US	29 APR	06 MAY 85	
1985-034B	NUSAT 1	15666	US	29 APR	15 DEC 86	
1985-036A	COSMOS 1649	15694	USSR	15 MAY	29 MAY 85	35*
1985-036B		15695	USSR	15 MAY	28 MAY 85	
1985-036C		15696	USSR	15 MAY	18 MAY 85	
1985-036D		15742	USSR	15 MAY	19 MAR 86	
1985-036E		15743	USSR	15 MAY	10 AUG 85	
1985-036F		15744	USSR	15 MAY	29 JUN 85	
1985-036G		15745	USSR	15 MAY	01 OCT 85	
1985-036H		15746	USSR	15 MAY	17 DEC 85	
1985-036J		15747	USSR	15 MAY	03 JUN 85	
1985-036K		15753	USSR	15 MAY	14 JUN 85	
1985-036L		15754	USSR	15 MAY	26 OCT 87	
1985-036M		15765	USSR	15 MAY	17 JUN 85	
1985-037D		15700	USSR	17 MAY	20 MAY 85	
1985-037E		15701	USSR	17 MAY	18 MAY 85	
1985-038A	COSMOS 1653	15732	USSR	22 MAY	05 JUN 85	
1985-038B		15733	USSR	22 MAY	02 JUN 85	
1985-038C		15790	USSR	22 MAY	26 JUN 85	
1985-038D		15791	USSR	22 MAY	06 JUN 85	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985-038E	COSMOS 1654	15792	USSR	22 MAY	13 JUL 85	
1985-038F		15793	USSR	22 MAY	18 JUN 85	
1985-038G		15794	USSR	22 MAY	06 JUN 85	
1985-039A		15734	USSR	23 MAY	07 AUG 85	
1985-039B		15735	USSR	23 MAY	29 MAY 85	
1985-039C		15851	USSR	23 MAY	14 AUG 85	
1985-039D		15853	USSR	23 MAY	27 JUN 85	
1985-039E		15854	USSR	07 JUN	18 AUG 85	
1985-039F		15855	USSR	23 MAY	23 JUN 85	
1985-039G		15893	USSR	23 MAY	23 JUN 85	
1985-039H		15894	USSR	23 MAY	23 JUN 85	
1985-039J		15895	USSR	23 MAY	24 JUN 85	
1985-039K		15896	USSR	23 MAY	24 JUN 85	
1985-039L		15897	USSR	23 MAY	24 JUN 85	
1985-039M		15898	USSR	23 MAY	25 JUN 85	
1985-039N		15899	USSR	23 MAY	25 JUN 85	
1985-039P	COSMOS 1657	15900	USSR	23 MAY	25 JUN 85	
1985-039Q		15901	USSR	23 MAY	27 JUN 85	
1985-039R		15902	USSR	23 MAY	27 JUN 85	
1985-039S		15903	USSR	23 MAY	28 JUN 85	
1985-039T		15904	USSR	23 MAY	29 JUN 85	
1985-039U		15905	USSR	23 MAY	30 JUN 85	
1985-040B		15739	USSR	29 MAY	06 JUL 85	
1985-040C		15740	USSR	29 MAY	04 JUL 85	
1985-040E		15748	USSR	29 MAY	25 JUN 85	
1985-040F		15749	USSR	29 MAY	17 JUN 85	
1985-040G		15750	USSR	29 MAY	31 MAY 85	
1985-040H		15795	USSR	29 MAY	01 JUN 85	
1985-042B		15770	USSR	29 MAY	23 JUN 85	
1985-042C		15771	USSR	30 MAY	03 JUN 85	
1985-043A	SOYUZ T-13	15804	USSR	06 JUN	31 MAY 85	
1985-043B		15805	USSR	06 JUN	26 SEP 85	
1985-043C		16097	USSR	06 JUN	08 JUN 85	
1985-044A		15806	USSR	07 JUN	21 JAN 86	
1985-044B		15807	USSR	07 JUN	21 JUN 85	
1985-044C		15843	USSR	07 JUN	11 JUN 85	
1985-044D		15844	USSR	07 JUN	29 JUN 85	
1985-044E		15848	USSR	07 JUN	03 JUL 85	
1985-044F		15849	USSR	07 JUN	12 JUL 85	
1985-044G		15852	USSR	07 JUN	24 JUN 85	
1985-045B		15809	USSR	11 JUN	18 AUG 85	
1985-045C		15810	USSR	11 JUN	24 AUG 85	
1985-046A	COSMOS 1659	15818	USSR	13 JUN	30 JUL 85	
1985-046B		15819	USSR	13 JUN	27 JUN 85	
1985-046C		15820	USSR	13 JUN	29 JUN 85	
1985-046D		15867	USSR	13 JUN	15 JUN 85	
1985-046E		15868	USSR	13 JUN	23 OCT 85	
1985-046F		15869	USSR	13 JUN	11 NOV 87	
1985-046G		15870	USSR	13 JUN	25 DEC 85	
1985-046H		15871	USSR	13 JUN	27 NOV 85	
1985-046J		15872	USSR	13 JUN	30 MAR 86	
1985-048A		15823	US	17 JUN	14 JUL 85	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985-048E	SPARTAN 1	15831	US	20 JUN	24 JUN 85	
1985-049B		15828	USSR	18 JUN	01 SEP 85	
1985-049C	COSMOS 1662	15829	USSR	18 JUN	28 SEP 85	
1985-050A		15833	USSR	19 JUN	16 NOV 89	
1985-050B		15834	USSR	19 JUN	10 OCT 89	
1985-050C		15835	USSR	19 JUN	26 OCT 86	
1985-050D		16008	USSR	19 JUN	15 NOV 86	
1985-050E		16009	USSR	19 JUN	03 NOV 86	
1985-050F		16010	USSR	19 JUN	28 NOV 86	
1985-050G		16014	USSR	19 JUN	22 DEC 86	
1985-050H		16015	USSR	19 JUN	16 OCT 86	
1985-050J		16016	USSR	19 JUN	09 OCT 86	
1985-050K	COSMOS 1664	16017	USSR	19 JUN	19 JAN 87	
1985-050L		16256	USSR	19 JUN	25 MAR 87	
1985-050M		16257	USSR	19 JUN	01 DEC 86	
1985-050N		16605	USSR	19 JUN	04 MAY 87	
1985-050P		16606	USSR	19 JUN	27 APR 87	
1985-050Q		16607	USSR	19 JUN	07 MAY 87	
1985-050R		16608	USSR	19 JUN	08 APR 87	
1985-050S		16956	USSR	19 JUN	07 OCT 87	
1985-050T		16957	USSR	19 JUN	15 SEP 87	
1985-050U		16958	USSR	19 JUN	09 SEP 87	
1985-050V	COSMOS 1663	16959	USSR	19 JUN	26 MAY 88	
1985-050W		16960	USSR	19 JUN	09 SEP 87	
1985-050X		16980	USSR	19 JUN	12 SEP 87	
1985-050Y		16981	USSR	19 JUN	29 SEP 87	
1985-050Z		17059	USSR	19 JUN	20 JUN 88	
1985-050AA		17060	USSR	19 JUN	12 JUN 88	
1985-050AB		17137	USSR	19 JUN	29 OCT 87	
1985-050AC		17158	USSR	19 JUN	27 OCT 87	
1985-050AD		17818	USSR	19 JUN	25 JUL 88	
1985-050AE		17819	USSR	19 JUN	12 JUL 88	
1985-051A	COSMOS 1664	15838	USSR	21 JUN	15 JUL 85	
1985-051B		15839	USSR	21 JUN	24 JUN 85	
1985-052A		15840	USSR	21 JUN	05 JUL 85	
1985-052B		15841	USSR	21 JUN	30 JUN 85	
1985-052C		15845	USSR	21 JUN	24 JUN 85	
1985-052D		15846	USSR	21 JUN	24 JUN 85	
1985-052E		15880	USSR	21 JUN	18 AUG 85	
1985-052F		15881	USSR	21 JUN	19 JUL 85	
1985-052G		15882	USSR	21 JUN	06 JUL 85	
1985-052H		15883	USSR	21 JUN	27 JUL 85	
1985-052J	COSMOS 1664	15884	USSR	21 JUN	16 JUL 85	
1985-053A		15842	USSR	21 JUN	28 JUN 85	
1985-053B		15847	USSR	21 JUN	24 JUN 85	
1985-053C		15850	USSR	21 JUN	27 JUN 85	
1985-054A		15860	USSR	26 JUN	05 JUL 85	
1985-054B		15861	USSR	26 JUN	10 JUL 85	
1985-054C		15866	USSR	26 JUN	30 JUN 85	
1985-054D		15885	USSR	26 JUN	16 JUL 85	
1985-054E		15886	USSR	26 JUN	20 JUL 85	
1985-054F		15887	USSR	26 JUN	07 JUL 85	

INTER- NATIONAL DESIGNATION		NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985-054G				15888	USSR	26 JUN	08 JUL 85	
1985-057A				15877	USSR	03 JUL	17 JUL 85	
1985-057B		COSMOS 1665		15878	USSR	03 JUL	10 JUL 85	
1985-057C				15879	USSR	03 JUL	25 AUG 85	
1985-057D				15912	USSR	03 JUL	04 AUG 85	
1985-057E				15913	USSR	03 JUL	25 JUL 85	
1985-057F				15914	USSR	03 JUL	22 JUL 85	
1985-057G				15915	USSR	03 JUL	02 SEP 85	
1985-057H				15917	USSR	03 JUL	25 JUL 85	
1985-059A		COSMOS 1667		15891	USSR	10 JUL	17 JUL 85	
1985-059B				15892	USSR	10 JUL	19 JUL 85	
1985-059C				15920	USSR	10 JUL	27 JUL 85	
1985-060A		COSMOS 1668		15906	USSR	15 JUL	29 JUL 85	
1985-060B				15907	USSR	15 JUL	24 JUL 85	
1985-060C				15908	USSR	15 JUL	16 JUL 85	
1985-060D				15921	USSR	15 JUL	03 SEP 85	
1985-060E				15922	USSR	15 JUL	04 AUG 85	
1985-060F				15923	USSR	15 JUL	02 AUG 85	
1985-060G				15924	USSR	15 JUL	01 AUG 85	
1985-060H				15926	USSR	15 JUL	09 AUG 85	
1985-060J				15927	USSR	15 JUL	31 JUL 85	
1985-060K				15928	USSR	15 JUL	02 AUG 85	
1985-061B				15910	USSR	17 JUL	22 AUG 85	
1985-061C				15911	USSR	17 JUL	23 AUG 85	
1985-062A		COSMOS 1669		15918	USSR	19 JUL	30 AUG 85	
1985-062B				15919	USSR	19 JUL	23 JUL 85	
1985-063A				15925	US	29 JUL	06 AUG 85	
1985-063B		STS 51F		15929	US	29 JUL	06 AUG 85	
1985-064B		PDP		16195	USSR	01 AUG	27 OCT 85	
1985-064C				16196	USSR	01 AUG	08 DEC 85	
1985-064D				16213	USSR	01 AUG	22 FEB 88	
1985-064E				18506	USSR	01 AUG	28 SEP 88	
1985-065A		COSMOS 1671		15931	USSR	02 AUG	16 AUG 85	
1985-065B				15932	USSR	02 AUG	10 AUG 85	
1985-065C				15961	USSR	02 AUG	10 SEP 85	
1985-065D				15962	USSR	02 AUG	15 SEP 85	
1985-065E				15964	USSR	02 AUG	03 SEP 85	
1985-065F				15965	USSR	02 AUG	21 AUG 85	
1985-065G				15966	USSR	02 AUG	25 AUG 85	
1985-067A		COSMOS 1672		15940	USSR	07 AUG	21 AUG 85	
1985-067B				15941	USSR	07 AUG	11 AUG 85	
1985-067C				15971	USSR	07 AUG	28 AUG 85	
1985-067D				15972	USSR	07 AUG	15 OCT 85	
1985-067E				15973	USSR	07 AUG	15 SEP 85	
1985-067F				15974	USSR	07 AUG	03 SEP 85	
1985-067G				15975	USSR	07 AUG	22 AUG 85	
1985-067H				15976	USSR	07 AUG	24 AUG 85	
1985-068A		COSMOS 1673		15942	USSR	08 AUG	19 SEP 85	
1985-068B				15943	USSR	08 AUG	14 AUG 85	
1985-068C				15949	USSR	08 AUG	10 AUG 85	
1985-070B				15947	USSR	08 AUG	11 AUG 85	
1985-070C				15948	USSR	08 AUG	09 AUG 85	

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985-070D		15956	USSR	08 AUG	31 DEC 86	
1985-070E		15957	USSR	08 AUG	27 OCT 86	
1985-071B		15953	USSR	12 AUG	23 OCT 85	
1985-071C		15954	USSR	12 AUG	27 SEP 85	
1985-071E		15958	USSR	12 AUG	01 OCT 85	
1985-071F		16061	USSR	12 AUG	30 SEP 85	
1985-072A	COSMOS 1676	15959	USSR	16 AUG	14 OCT 85	
1985-072B		15960	USSR	16 AUG	22 AUG 85	
1985-073B		15968	JAPAN	18 AUG	13 NOV 85	
1985-073D		16388	USSR	18 AUG	22 MAY 86	
1985-074B		15978	USSR	22 AUG	04 NOV 85	
1985-074C		15979	USSR	22 AUG	22 OCT 85	
1985-075B		16192	USSR	23 AUG	14 DEC 85	
1985-075C		16193	USSR	23 AUG	27 OCT 85	
1985-075D		16219	USSR	23 AUG	28 NOV 85	
1985-076A	STS 511	15992	US	23 AUG	03 SEP 85	
1985-076H		16013	US	27 AUG	28 FEB 86	
1985-077A	COSMOS 1678	15997	USSR	29 AUG	12 SEP 85	
1985-077B		15998	USSR	29 AUG	02 SEP 85	
1985-077C		16002	USSR	29 AUG	06 SEP 85	
1985-077D		16021	USSR	29 AUG	15 SEP 85	
1985-077E		16022	USSR	29 AUG	03 OCT 85	
1985-077F		16023	USSR	29 AUG	25 OCT 85	
1985-077G		16024	USSR	29 AUG	14 SEP 85	
1985-077H		16025	USSR	29 AUG	14 SEP 85	
1985-077J		16026	USSR	29 AUG	27 SEP 85	
1985-078A	COSMOS 1679	15999	USSR	29 AUG	18 OCT 85	
1985-078B		16000	USSR	29 AUG	04 SEP 85	
1985-080A	COSMOS 1681	16018	USSR	06 SEP	19 SEP 85	
1985-080B		16019	USSR	06 SEP	10 SEP 85	
1985-080C		16058	USSR	06 SEP	23 SEP 85	
1985-080E		16059	USSR	16 SEP	26 SEP 85	
1985-081A	SOYUZ T-14	16060	USSR	06 SEP	20 SEP 85	
1985-081B		16051	USSR	17 SEP	21 NOV 85	
1985-081C		16052	USSR	17 SEP	20 SEP 85	
1985-082A	COSMOS 1682	16054	USSR	17 SEP	29 DEC 86	
1985-082B		16055	USSR	19 SEP	19 SEP 85	
1985-082C		17248	USSR	19 SEP	27 DEC 86	
1985-082D		17249	USSR	19 SEP	29 DEC 86	
1985-082E		17250	USSR	19 SEP	13 JAN 87	
1985-082F		17251	USSR	19 SEP	13 JAN 87	
1985-082G		17275	USSR	19 SEP	01 MAR 87	
1985-082H		17277	USSR	19 SEP	19 MAY 87	
1985-082J		17278	USSR	19 SEP	11 MAR 87	
1985-082K		17279	USSR	19 SEP	11 MAY 87	
1985-082L		17280	USSR	19 SEP	27 APR 87	
1985-082N		17282	USSR	19 SEP	12 MAR 87	
1985-082P		17283	USSR	19 SEP	13 JUL 87	
1985-082Q		17284	USSR	19 SEP	07 JAN 87	
1985-082R		17285	USSR	19 SEP	01 MAR 87	
1985-082S		17286	USSR	19 SEP	07 MAR 87	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985-082T			17287	USSR	19 SEP	08 MAR 87	
1985-082U			17288	USSR	19 SEP	21 JAN 87	
1985-082V			17289	USSR	19 SEP	19 JUL 87	
1985-082W			17840	USSR	19 SEP	11 AUG 87	
1985-082X			17841	USSR	19 SEP	19 APR 88	
1985-082Y			18280	USSR	19 SEP	31 MAY 88	
1985-082Z			18430	USSR	19 SEP	12 OCT 88	
1985-083A		COSMOS 1683	16056	USSR	19 SEP	04 OCT 85	
1985-083B			16057	USSR	19 SEP	03 OCT 85	
1985-083C			16120	USSR	19 SEP	28 MAR 86	
1985-083D			16121	USSR	19 SEP	26 DEC 87	
1985-083E			16123	USSR	19 SEP	24 DEC 85	
1985-083F			16124	USSR	19 SEP	22 MAY 86	
1985-083G			16126	USSR	19 SEP	24 OCT 85	
1985-083H			16127	USSR	19 SEP	04 MAR 86	
1985-084B			16065	USSR	24 SEP	21 NOV 85	
1985-084C			16066	USSR	24 SEP	25 OCT 85	
1985-084E			16090	USSR	24 SEP	16 NOV 85	
1985-085A		COSMOS 1685	16088	USSR	27 SEP	10 OCT 85	
1985-085B			16089	USSR	27 SEP	08 OCT 85	
1985-085C			16134	USSR	27 SEP	08 FEB 86	
1985-085D			16135	USSR	27 SEP	24 NOV 87	
1985-085E			16136	USSR	27 SEP	23 DEC 85	
1985-085F			16145	USSR	27 SEP	30 APR 86	
1985-085G			16146	USSR	27 SEP	15 APR 86	
1985-085H			16159	USSR	27 SEP	24 FEB 86	
1985-085J			16160	USSR	27 SEP	16 OCT 86	
1985-085K			16161	USSR	27 SEP	18 OCT 85	
1985-085L			16162	USSR	27 SEP	07 NOV 85	
1985-086A		COSMOS 1686	16095	USSR	27 SEP	07 FEB 91	
1985-086B			16096	USSR	27 SEP	02 OCT 85	
1985-086C			16128	USSR	27 SEP	01 FEB 86	
1985-086C			16104	USSR	30 SEP	28 NOV 85	
1985-088C			16105	USSR	30 SEP	03 NOV 85	
1985-089A		COSMOS 1688	16107	USSR	02 OCT	02 JUL 88	
1985-089B			16108	USSR	02 OCT	19 JUN 88	
1985-091B			16113	USSR	03 OCT	15 DEC 85	
1985-091C			16114	USSR	03 OCT	16 NOV 85	
1985-092A		STS 51J	16115	US	03 OCT	07 OCT 85	
1985-094H			16264	USSR	09 OCT	23 MAR 90	
1985-094J			16265	USSR	09 OCT	13 NOV 89	
1985-095A		COSMOS 1696	16169	USSR	16 OCT	30 OCT 85	
1985-095B			16170	USSR	16 OCT	23 OCT 85	
1985-095C			16227	USSR	16 OCT	07 NOV 85	
1985-095D			16228	USSR	16 OCT	01 DEC 85	
1985-095E			16232	USSR	16 OCT	07 NOV 85	
1985-095F			16233	USSR	16 OCT	07 NOV 85	
1985-095G			16234	USSR	16 OCT	03 NOV 85	
1985-096A		PRC 17	16177	PRC	21 OCT	07 NOV 85	
1985-096B			16178	PRC	21 OCT	03 NOV 85	
1985-096C			16179	PRC	21 OCT	24 OCT 85	
1985-096D			16180	PRC	21 OCT	24 OCT 85	

# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DEATH	NOTES
1985-098B		16184	USSR	22 OCT	07 JAN 86	
1985-098C		16185	USSR	22 OCT	14 DEC 85	
1985-099B		16188	USSR	23 OCT	24 MAR 86	
1985-099C		16189	USSR	23 OCT	21 MAR 86	
1985-099D		16190	USSR	23 OCT	12 FEB 86	
1985-101A	COSMOS 1699	16198	USSR	25 OCT	23 DEC 85	
1985-101B		16212	USSR	25 OCT	30 OCT 85	
1985-102B		16200	USSR	25 OCT	28 OCT 85	
1985-102C		16201	USSR	25 OCT	26 OCT 85	
1985-102E		16215	USSR	25 OCT	27 OCT 86	
1985-102F		16216	USSR	25 OCT	18 MAY 86	
1985-103B		16221	USSR	28 OCT	04 DEC 85	
1985-103C		16222	USSR	28 OCT	18 NOV 85	
1985-103E		16224	USSR	28 OCT	20 NOV 85	
1985-103F		16225	USSR	28 OCT	29 NOV 85	
1985-103G		16226	USSR	28 OCT	01 DEC 85	
1985-104A	STS 61A	16230	US	30 OCT	06 NOV 85	
1985-104B	GLOMAR	16231	US	30 OCT	26 DEC 86	35 *
1985-105B		16236	USSR	09 NOV	11 JAN 86	
1985-105C		16237	USSR	09 NOV	24 DEC 85	
1985-106A	COSMOS 1702	16247	USSR	13 NOV	27 NOV 85	
1985-106B		16248	USSR	13 NOV	28 NOV 85	
1985-106C		16285	USSR	13 NOV	31 MAY 86	
1985-106D		16286	USSR	13 NOV	28 JAN 88	
1985-106E		16287	USSR	13 NOV	13 DEC 85	
1985-106F		16288	USSR	13 NOV	10 AUG 86	
1985-106G		16289	USSR	13 NOV	07 APR 86	
1985-106H		16290	USSR	13 NOV	19 MAR 86	
1985-107B		16251	USSR	15 NOV	18 NOV 85	
1985-107C		16252	USSR	15 NOV	16 NOV 85	
1985-107D		16254	USSR	15 NOV	27 OCT 86	
1985-107E		16255	USSR	15 NOV	19 JUL 86	
1985-109A	STS 61B	16273	US	27 NOV	03 DEC 85	
1985-109E	DEX TARGET	16277	US	30 NOV	02 MAR 87	
1985-111A	COSMOS 1705	16296	USSR	03 DEC	17 DEC 85	35 *
1985-111B		16297	USSR	03 DEC	19 DEC 85	
1985-111C		16305	USSR	03 DEC	06 DEC 85	
1985-111D		16353	USSR	03 DEC	08 JAN 86	
1985-111E		16354	USSR	03 DEC	10 JAN 86	
1985-111F		16355	USSR	03 DEC	07 MAR 86	
1985-111G		16356	USSR	03 DEC	04 APR 86	
1985-111H		16357	USSR	03 DEC	13 OCT 86	
1985-111J		16358	USSR	03 DEC	22 DEC 85	
1985-111K		16359	USSR	03 DEC	12 JAN 86	
1985-111L		16370	USSR	03 DEC	02 JUL 86	
1985-111M		16371	USSR	03 DEC	24 JAN 86	
1985-111N		16372	USSR	03 DEC	14 JAN 86	
1985-111P		16373	USSR	03 DEC	15 FEB 88	
1985-111Q		16374	USSR	03 DEC	22 FEB 86	
1985-112A	COSMOS 1706	16306	USSR	11 DEC	09 FEB 86	
1985-112B		16307	USSR	11 DEC	16 DEC 85	
1985-114A		16328	US	13 DEC	11 MAY 89	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECAVED OBJECTS						
1985-114B		16329	US	13 DEC	09 AUG 87	
1985-114C		16330	US	13 DEC	11 APR 88	
1985-114D		17247	US	13 DEC	02 MAR 87	
1985-114E		17257	US	13 DEC	23 FEB 87	
1985-115A	COSMOS 1708	16331	USSR	13 DEC	27 DEC 85	
1985-115B		16332	USSR	13 DEC	17 DEC 85	
1985-115C		16340	USSR	13 DEC	22 DEC 85	
1985-115D		16426	USSR	13 DEC	30 DEC 85	
1985-115E		16427	USSR	13 DEC	29 JAN 86	
1985-115F		16428	USSR	13 DEC	28 DEC 85	
1985-115G		16431	USSR	13 DEC	04 JAN 86	
1985-115H		16432	USSR	13 DEC	15 JAN 86	
1985-115J		16433	USSR	13 DEC	07 JAN 86	
1985-117B		16394	USSR	24 DEC	30 JAN 86	
1985-117C		16395	USSR	24 DEC	21 JAN 86	
1985-117D		16400	USSR	24 DEC	16 JAN 86	
1985-117E		16401	USSR	24 DEC	20 JAN 86	
1985-117G		16410	USSR	24 DEC	19 JAN 86	
1985-117H		16411	USSR	24 DEC	17 JAN 86	
1985-117J		16412	USSR	24 DEC	22 JAN 86	
1985-118D		16399	USSR	24 DEC	27 DEC 85	
1985-118E		16403	USSR	24 DEC	25 DEC 85	
1985-118G		16405	USSR	24 DEC	27 DEC 85	
1985-118H		16406	USSR	24 DEC	28 DEC 85	
1985-118J		16407	USSR	24 DEC	22 JAN 86	
1985-120A	COSMOS 1713	16429	USSR	27 DEC	27 JAN 86	
1985-120B		16430	USSR	27 DEC	27 JAN 86	
1985-120C		16508	USSR	27 DEC	30 JAN 86	
1985-120D		16509	USSR	27 DEC	03 FEB 86	
1985-121A	COSMOS 1714	16434	USSR	28 DEC	27 FEB 86	
1985-121B		16435	USSR	28 DEC	11 JAN 86	
1985-121C		16436	USSR	28 DEC	08 JAN 86	
1985-121D		16437	USSR	28 DEC	08 JUL 90	
1985-121E		16438	USSR	28 DEC	22 APR 90	
1985-121F		16439	USSR	28 DEC	04 APR 90	
1985-121G		16440	USSR	28 DEC	16 NOV 89	
1986 LAUNCHES						
1985-082M		17281	USSR	19 SEP	27 MAY 87	
1986-001A	COSMOS 1715	16447	USSR	08 JAN	22 JAN 86	
1986-001B		16448	USSR	08 JAN	16 JAN 86	
1986-001C		16505	USSR	08 JAN	25 JAN 86	
1986-001D		16506	USSR	08 JAN	27 JAN 86	
1986-001E		16507	USSR	08 JAN	31 JAN 86	
1986-003A	STS 61C	16481	US	12 JAN	18 JAN 86	
1986-004A	COSMOS 1724	16490	USSR	15 JAN	15 MAR 86	
1986-004B		16491	USSR	15 JAN	21 JAN 86	
1986-004C		16492	USSR	15 JAN	16 JAN 86	
1986-007B		16498	USSR	17 JAN	20 JAN 86	
1986-007C		16499	USSR	17 JAN	18 JAN 86	
1986-007D		16500	USSR	17 JAN	12 AUG 87	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-009A	COSMOS 1728	16512	USSR	28 JAN	11 FEB 86	
1986-009B		16513	USSR	28 JAN	06 FEB 86	
1986-009C		16514	USSR	28 JAN	31 JAN 86	
1986-009D		16595	USSR	28 JAN	26 FEB 86	
1986-009E		16596	USSR	28 JAN	18 FEB 86	
1986-009F		16599	USSR	28 JAN	15 FEB 86	
1986-011B		16529	USSR	01 FEB	10 MAR 86	
1986-011C		16530	USSR	01 FEB	24 MAR 86	
1986-011D		16531	USSR	01 FEB	31 MAR 86	
1986-011E		16532	USSR	01 FEB	13 MAR 86	
1986-012A	COSMOS 1730	16540	USSR	04 FEB	13 FEB 86	
1986-012B		16541	USSR	04 FEB	11 FEB 86	
1986-012C		16602	USSR	04 FEB	17 MAR 86	
1986-012D		16603	USSR	04 FEB	22 FEB 86	
1986-012E		16604	USSR	04 FEB	02 MAR 86	
1986-013A		16589	USSR	07 FEB	03 OCT 86	
1986-013B		16590	USSR	07 FEB	09 FEB 86	
1986-016B		16598	JAPAN	12 FEB	19 APR 87	
1986-016D		16601	JAPAN	12 FEB	22 FEB 86	
1986-017B		16610	USSR	19 FEB	24 FEB 86	
1986-017C	COSMOS 1731	17820	USSR	19 FEB	07 MAY 87	
1986-017D		17821	USSR	19 FEB	06 MAY 87	
1986-017E		18885	USSR	19 FEB	08 MAR 88	
1986-017F		18886	USSR	19 FEB	21 MAR 88	
1986-017G		18887	USSR	19 FEB	02 MAR 88	
1986-017H		18889	USSR	19 FEB	05 MAR 88	
1986-017J		19271	USSR	19 FEB	10 AUG 88	
1986-017K		19272	USSR	19 FEB	25 AUG 88	
1986-017M		19387	USSR	19 FEB	16 OCT 88	
1986-017N		19408	USSR	19 FEB	24 SEP 88	
1986-017P		19409	USSR	19 FEB	31 OCT 88	
1986-017Q		19442	USSR	19 FEB	05 OCT 88	
1986-017R		19533	USSR	19 FEB	02 OCT 88	
1986-017S		19536	USSR	19 FEB	09 NOV 88	
1986-017T		19538	USSR	19 FEB	17 OCT 88	
1986-017U		19539	USSR	19 FEB	01 OCT 88	
1986-017V		19540	USSR	19 FEB	23 OCT 88	
1986-017W		19568	USSR	19 FEB	22 OCT 88	
1986-017X		19569	USSR	19 FEB	22 OCT 88	
1986-017Y		19570	USSR	19 FEB	19 OCT 88	
1986-017Z		19571	USSR	19 FEB	20 OCT 88	
1986-017AA		19584	USSR	19 FEB	05 NOV 88	
1986-017AB		19585	USSR	19 FEB	26 NOV 88	
1986-017AC		19586	USSR	19 FEB	08 NOV 88	
1986-017AD		19587	USSR	19 FEB	04 NOV 88	
1986-017AE		19588	USSR	19 FEB	05 NOV 88	
1986-017AF		19604	USSR	19 FEB	10 NOV 88	
1986-017AG		19605	USSR	19 FEB	06 NOV 88	
1986-017AH		19606	USSR	19 FEB	05 JAN 89	
1986-017AJ		19607	USSR	19 FEB	22 FEB 89	
1986-017AK		19618	USSR	19 FEB	07 DEC 88	
1986-017AL		19619	USSR	19 FEB	08 DEC 88	

INTER- NATIONAL DESIGNATION	NAME	DECAVED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-017AM			19620	USSR	19 FEB	06 NOV 88	
1986-017AN			19624	USSR	19 FEB	06 NOV 88	
1986-017AP			19632	USSR	19 FEB	23 DEC 88	
1986-017AQ			19633	USSR	19 FEB	18 DEC 88	
1986-017AR			19634	USSR	19 FEB	25 DEC 88	
1986-017AS			19635	USSR	19 FEB	03 DEC 88	
1986-017AT			19636	USSR	19 FEB	03 DEC 88	
1986-017AU			19680	USSR	19 FEB	22 DEC 88	
1986-017AV			19681	USSR	19 FEB	28 DEC 88	
1986-017AW			19682	USSR	19 FEB	23 DEC 88	
1986-017AX			19692	USSR	19 FEB	19 DEC 88	
1986-017AY			19693	USSR	19 FEB	24 DEC 88	
1986-017AZ			19700	USSR	19 FEB	19 JAN 89	
1986-017BA			19701	USSR	19 FEB	28 DEC 88	
1986-017BB			19702	USSR	19 FEB	27 JAN 89	
1986-017BC			19703	USSR	19 FEB	22 DEC 88	
1986-017BD			19704	USSR	19 FEB	28 FEB 89	
1986-017BE			19707	USSR	19 FEB	23 JAN 89	
1986-017BF			19708	USSR	19 FEB	20 JAN 89	
1986-017BG			19736	USSR	19 FEB	22 FEB 89	
1986-017BH			19737	USSR	19 FEB	01 FEB 89	
1986-017BJ			19738	USSR	19 FEB	22 JAN 89	
1986-017BK			19739	USSR	19 FEB	17 JAN 89	
1986-017BL			19740	USSR	19 FEB	03 MAR 89	
1986-017BM			19741	USSR	19 FEB	25 JAN 89	
1986-017BN			19743	USSR	19 FEB	22 MAR 89	
1986-017BP			19744	USSR	19 FEB	05 MAR 89	
1986-017BQ			19745	USSR	19 FEB	05 MAR 89	
1986-017BR			19746	USSR	19 FEB	11 FEB 89	
1986-017BS			19747	USSR	19 FEB	06 MAR 89	
1986-017BT			19816	USSR	19 FEB	24 JAN 90	
1986-017BU			20414	USSR	19 FEB	15 MAR 90	
1986-017BV			20415	USSR	19 FEB	04 MAR 90	
1986-017BW			20416	USSR	19 FEB	07 FEB 90	
1986-017BX			20417	USSR	19 FEB	27 JUN 90	
1986-017BY			20407	USSR	19 FEB	04 MAR 90	
1986-017BZ			20418	USSR	19 FEB	01 MAR 90	
1986-017CA			20419	USSR	19 FEB	11 FEB 90	
1986-017CB			20420	USSR	19 FEB	08 MAR 90	
1986-017CD			20459	USSR	19 FEB	28 JAN 90	
1986-017CE			20460	USSR	19 FEB	03 FEB 90	
1986-017CF			20461	USSR	19 FEB	07 FEB 90	
1986-017CG			20472	USSR	19 FEB	27 SEP 90	
1986-017CH			20475	USSR	19 FEB	03 AUG 90	
1986-017CJ			20689	USSR	19 FEB	21 AUG 90	
1986-017CK			20690	USSR	19 FEB	21 AUG 90	
1986-017CL			20699	USSR	19 FEB	03 AUG 90	
1986-017CM			20700	USSR	19 FEB	21 AUG 90	
1986-017CN			20701	USSR	19 FEB	19 SEP 90	
1986-017CP			20719	USSR	19 FEB	31 OCT 90	
1986-017CQ			20917	USSR	19 FEB	09 NOV 90	
1986-017CR			20921	USSR	19 FEB		

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# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-017CS		20922	USSR	19 FEB	08 NOV 90	
1986-017CT		21050	USSR	19 FEB	04 FEB 91	
1986-017CU		21051	USSR	19 FEB	05 FEB 91	
1986-017CV		21082	USSR	19 FEB	18 MAR 91	
1986-017CW		21084	USSR	19 FEB	05 MAR 91	
1986-017CX		21085	USSR	19 FEB	01 MAR 91	
1986-017CY		21086	USSR	19 FEB	24 FEB 91	
1986-017CZ		21235	USSR	19 FEB	25 AUG 91	
1986-017DA		21236	USSR	19 FEB	24 JUN 91	
1986-017DB		21237	USSR	19 FEB	15 JUN 91	
1986-017DC		21238	USSR	19 FEB	07 JUN 91	
1986-017DD		21239	USSR	19 FEB	25 JUN 91	
1986-017DE		21240	USSR	19 FEB	11 NOV 91	
1986-017DF		21241	USSR	19 FEB	09 JUN 91	
1986-017DG		21243	USSR	19 FEB	07 JUN 91	
1986-017DJ		21409	USSR	19 FEB	24 JUL 91	
1986-017DL		21411	USSR	19 FEB	24 AUG 91	
1986-017DM		21412	USSR	19 FEB	11 AUG 91	
1986-017DN		21413	USSR	19 FEB	28 OCT 91	
1986-017DP		21414	USSR	19 FEB	20 OCT 91	
1986-017DQ		21415	USSR	19 FEB	02 SEP 91	
1986-017DR		21416	USSR	19 FEB	14 AUG 91	
1986-017DS		21417	USSR	19 FEB	30 OCT 91	
1986-017DT		21421	USSR	19 FEB	08 AUG 91	
1986-017DU		21424	USSR	19 FEB	11 JUL 91	
1986-017DV		21425	USSR	17 JUN	18 OCT 91	
1986-017DW		21476	USSR	19 FEB	08 SEP 91	
1986-017DX		21477	USSR	19 FEB	12 AUG 91	
1986-017DY		21478	USSR	19 FEB	19 AUG 91	
1986-017DZ		21481	USSR	19 FEB	16 DEC 91	
1986-017EA		21482	USSR	19 FEB	07 JAN 92	
1986-017EB		21483	USSR	19 FEB	13 SEP 91	
1986-017EC		21484	USSR	19 FEB	12 JUL 91	
1986-017EE		21486	USSR	19 FEB	05 AUG 91	
1986-017EF		21487	USSR	19 FEB	06 JUL 91	
1986-017EG		21488	USSR	19 FEB	11 APR 92	
1986-017EH		21489	USSR	19 FEB	23 SEP 91	
1986-017EJ		21490	USSR	19 FEB	15 SEP 91	
1986-017EK		21526	USSR	19 FEB	05 APR 92	
1986-017EL		21530	USSR	19 FEB	01 SEP 91	
1986-017EM		21531	USSR	19 FEB	09 SEP 91	
1986-017EN		21556	USSR	19 FEB	20 SEP 91	
1986-017EP		21557	USSR	19 FEB	14 AUG 91	
1986-017EQ		21571	USSR	19 FEB	11 SEP 91	
1986-017ER		21572	USSR	19 FEB	27 AUG 91	
1986-017ES		21573	USSR	19 FEB	06 SEP 91	
1986-017ET		21579	USSR	19 FEB	28 AUG 91	
1986-017EU		21595	USSR	19 FEB	07 SEP 91	
1986-017EV		21596	USSR	19 FEB	31 AUG 91	
1986-017EW		21603	USSR	19 FEB	05 OCT 91	
1986-017EX		21618	USSR	19 FEB	15 AUG 91	
		21619	USSR	19 FEB	18 DEC 91	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-017EY		21624	USSR	19 FEB	19 AUG 91	
1986-017EZ		21625	USSR	19 FEB	06 DEC 91	
1986-017FA		21626	USSR	19 FEB	03 OCT 91	
1986-017FB		21627	USSR	19 FEB	03 DEC 91	
1986-017FC		21628	USSR	19 FEB	07 OCT 91	
1986-017FD		21629	USSR	19 FEB	30 SEP 91	
1986-017FE		21649	USSR	19 FEB	29 AUG 91	
1986-017FF		21650	USSR	19 FEB	13 AUG 91	
1986-017FG		21651	USSR	19 FEB	21 AUG 91	
1986-017FH		21652	USSR	19 FEB	29 AUG 91	
1986-017FJ		21661	USSR	19 FEB	28 FEB 92	
1986-017FK		21810	USSR	19 FEB	17 JUN 92	
1986-017FL		21811	USSR	19 FEB	01 JUL 92	
1986-017FN		21830	USSR	19 FEB	17 JUN 92	
1986-017FP		21831	USSR	19 FEB	04 JUN 92	
1986-017FQ		21832	USSR	19 FEB	25 MAR 92	
1986-017FR		21879	USSR	19 FEB	22 MAR 92	
1986-017FS		21880	USSR	19 FEB	29 MAR 92	
1986-017FT		21881	USSR	19 FEB	21 JAN 93	
1986-017FU		21882	USSR	19 FEB	25 FEB 92	
1986-017FV		21883	USSR	19 FEB	18 JAN 93	
1986-017FW		21884	USSR	19 FEB	21 APR 92	
1986-017FX		21885	USSR	19 FEB	26 MAR 92	
1986-017FY		21886	USSR	19 FEB	29 JUN 92	
1986-017FZ		21887	USSR	19 FEB	04 APR 92	
1986-017GA		21888	USSR	19 FEB	09 JUN 92	
1986-017GB		21889	USSR	19 FEB	17 MAY 92	
1986-017GC		21896	USSR	19 FEB	10 MAY 92	
1986-017GD		21901	USSR	19 FEB	12 DEC 92	
1986-017GE		22023	USSR	19 FEB	04 MAY 93	
1986-017GF		22024	USSR	19 FEB	19 OCT 92	
1986-017GG		22045	USSR	19 FEB	26 FEB 93	
1986-017GH		22046	USSR	19 FEB	10 DEC 92	
1986-017GJ		22106	USSR	19 FEB	23 SEP 92	
1986-017GK		22107	USSR	19 FEB	02 DEC 92	
1986-017GL		22111	USSR	19 FEB	03 NOV 92	
1986-017GN		22122	USSR	19 FEB	17 NOV 92	
1986-017GO		22124	USSR	19 FEB	12 NOV 92	
1986-017GT		22129	USSR	19 FEB	01 NOV 92	
1986-017GU		22130	USSR	19 FEB	09 APR 93	
1986-017GV		22131	USSR	19 FEB	01 APR 93	
1986-017GW		22209	USSR	19 FEB	08 DEC 92	
1986-017GX		22225	USSR	19 FEB	15 OCT 93	
1986-017GY		22228	USSR	19 FEB	25 JUL 93	
1986-017GZ		22622	USSR	19 FEB	25 APR 93	
1986-017HA		22631	USSR	19 FEB	09 AUG 93	
1986-017HB		22632	USSR	19 FEB	30 JUN 93	
1986-017HD		22677	USSR	19 FEB	01 NOV 93	
1986-017HE		22678	USSR	19 FEB	27 JUN 93	
1986-017HF		22679	USSR	19 FEB	06 NOV 93	
1986-017HG		22680	USSR	19 FEB		
1986-017HH		22703	USSR	19 FEB		

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# DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-017HU		22810	USSR	19 FEB	11 OCT 93	
1986-017HP		22831	USSR	19 FEB	20 OCT 93	
1986-017HQ		22832	USSR	19 FEB	19 OCT 93	
1986-017HR		22833	USSR	19 FEB	01 NOV 93	
1986-017HV		22872	USSR	19 FEB	15 DEC 93	
1986-017HX		22874	USSR	19 FEB	26 DEC 93	
1986-017HZ		22887	USSR	19 FEB	21 NOV 93	
1986-019F		17111	ESA	22 FEB	07 JAN 89	
1986-019G		17112	ESA	22 FEB	14 NOV 90	
1986-019H		17113	ESA	22 FEB	26 AUG 88	
1986-019J		17114	ESA	22 FEB	05 APR 89	
1986-019K		17115	ESA	22 FEB	17 JAN 89	
1986-019P		17119	ESA	22 FEB	02 JUL 90	
1986-019V		17126	ESA	22 FEB	16 MAR 87	
1986-019W		17132	ESA	22 FEB	25 JUL 87	
1986-019AB		17133	ESA	22 FEB	28 DEC 88	
1986-019AC		17133	ESA	22 FEB	04 SEP 88	
1986-019AD		17150	ESA	22 FEB	12 JUN 90	
1986-019AE		17151	ESA	22 FEB	04 MAY 89	
1986-019AK		17156	ESA	22 FEB	07 DEC 89	
1986-019AL		17157	ESA	22 FEB	16 DEC 88	
1986-019AM		17183	ESA	22 FEB	08 NOV 89	
1986-019AP		17185	ESA	22 FEB	11 MAR 89	
1986-019AQ		17186	ESA	22 FEB	28 DEC 88	
1986-019AR		17187	ESA	22 FEB	23 JAN 89	
1986-019AS		17188	ESA	22 FEB	11 NOV 88	
1986-019AU		17190	ESA	22 FEB	20 FEB 89	
1986-019AV		17193	ESA	22 FEB	22 MAR 89	
1986-019AW		17194	ESA	22 FEB	16 FEB 89	
1986-019AY		17196	ESA	22 FEB	16 JAN 89	
1986-019AZ		17197	ESA	22 FEB	21 FEB 89	
1986-019BC		17200	ESA	22 FEB	09 JUL 91	
1986-019BE		17202	ESA	22 FEB	04 MAR 89	
1986-019BH		17205	ESA	22 FEB	27 MAR 89	
1986-019BK		17207	ESA	22 FEB	27 MAR 89	
1986-019BM		17209	ESA	22 FEB	14 JAN 89	
1986-019BN		17210	ESA	22 FEB	29 APR 91	
1986-019BP		17211	ESA	22 FEB	27 FEB 89	
1986-019BS		17220	ESA	22 FEB	21 APR 89	
1986-019BT		17221	ESA	22 FEB	23 SEP 88	
1986-019BU		17222	ESA	22 FEB	19 JUN 89	
1986-019BV		17223	ESA	22 FEB	25 MAY 90	
1986-019BW		17224	ESA	22 FEB	16 MAR 92	
1986-019BX		17225	ESA	22 FEB	18 MAR 89	
1986-019BY		17226	ESA	22 FEB	09 DEC 89	
1986-019BZ		17227	ESA	22 FEB	14 FEB 89	
1986-019CA		17228	ESA	22 FEB	13 SEP 91	
1986-019CB		17229	ESA	22 FEB	03 JUN 89	
1986-019CC		17230	ESA	22 FEB	06 SEP 89	
1986-019CD		17231	ESA	22 FEB	25 SEP 88	
1986-019CE		17232	ESA	22 FEB	27 OCT 88	
1986-019CG		17234	ESA	22 FEB	10 AUG 88	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-019CJ		17236	ESA	22 FEB	20 AUG 89	
1986-019CK		17237	ESA	22 FEB	09 NOV 89	
1986-019CL		17238	ESA	22 FEB	21 DEC 88	
1986-019CM		17305	ESA	22 FEB	31 MAR 90	
1986-019CN		17306	ESA	22 FEB	24 SEP 88	
1986-019CP		17307	ESA	22 FEB	06 MAR 92	
1986-019CQ		17308	ESA	22 FEB	27 NOV 89	
1986-019CR		17309	ESA	22 FEB	15 JUN 89	
1986-019CS		17310	ESA	22 FEB	08 APR 89	
1986-019CU		17312	ESA	22 FEB	19 OCT 89	
1986-019CW		17314	ESA	22 FEB	06 JAN 92	
1986-019CX		17315	ESA	22 FEB	23 JAN 92	
1986-019CZ		17317	ESA	22 FEB	20 JUN 87	
1986-019DA		17318	ESA	22 FEB	28 OCT 87	
1986-019DB		17319	ESA	22 FEB	09 NOV 88	
1986-019DC		17320	ESA	22 FEB	19 FEB 89	
1986-019DD		17321	ESA	22 FEB	01 AUG 89	
1986-019DE		17322	ESA	22 FEB	26 OCT 88	
1986-019DH		17336	ESA	22 FEB	10 NOV 89	
1986-019DI		17337	ESA	22 FEB	06 MAR 89	
1986-019DJ		17338	ESA	22 FEB	27 SEP 89	
1986-019DK		17339	ESA	22 FEB	20 APR 90	
1986-019DL		17340	ESA	22 FEB	04 NOV 88	
1986-019DM		17341	ESA	22 FEB	01 JAN 91	
1986-019DN		17343	ESA	22 FEB	27 DEC 91	
1986-019DQ		17344	ESA	22 FEB	19 JAN 89	
1986-019DR		17345	ESA	22 FEB	16 APR 89	
1986-019DS		17346	ESA	22 FEB	11 MAY 89	
1986-019DT		17347	ESA	22 FEB	15 NOV 87	
1986-019DU		17348	ESA	22 FEB	12 OCT 88	
1986-019DV		17349	ESA	22 FEB	13 FEB 89	
1986-019DW		17350	ESA	22 FEB	25 FEB 90	
1986-019DX		17351	ESA	22 FEB	28 FEB 90	
1986-019DY		17354	ESA	22 FEB	17 FEB 89	
1986-019EB		17355	ESA	22 FEB	03 DEC 89	
1986-019EC		17371	ESA	22 FEB	09 JAN 89	
1986-019ED		17372	ESA	22 FEB	27 JAN 89	
1986-019EE		17373	ESA	22 FEB	01 JAN 89	
1986-019EF		17374	ESA	22 FEB	05 JAN 90	
1986-019EG		17375	ESA	22 FEB	09 DEC 88	
1986-019EH		17376	ESA	22 FEB	24 AUG 90	
1986-019EJ		17377	ESA	22 FEB	15 FEB 88	
1986-019EK		17378	ESA	22 FEB	09 APR 89	
1986-019EL		17379	ESA	22 FEB	04 DEC 90	
1986-019EM		17380	ESA	22 FEB	10 SEP 90	
1986-019EN		17381	ESA	22 FEB	05 OCT 88	
1986-019EP		17382	ESA	22 FEB	19 DEC 89	
1986-019EQ		17383	ESA	22 FEB	08 MAR 89	
1986-019ER		17384	ESA	22 FEB	16 FEB 89	
1986-019ES		17385	ESA	22 FEB	24 APR 89	
1986-019ET		17386	ESA	22 FEB	01 MAR 89	
1986-019EU		17387	ESA	22 FEB	05 MAR 89	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-019EW				17388	ESA	22 FEB	26 SEP 88	
1986-019EX				17389	ESA	22 FEB	05 OCT 88	
1986-019EY				17390	ESA	22 FEB	10 NOV 89	
1986-019EZ				17391	ESA	22 FEB	09 JUL 89	
1986-019FA				17392	ESA	22 FEB	13 MAY 92	
1986-019FB				17393	ESA	22 FEB	29 DEC 88	
1986-019FC				17394	ESA	22 FEB	19 DEC 88	
1986-019FD				17395	ESA	22 FEB	17 JAN 89	
1986-019FE				17396	ESA	22 FEB	16 APR 89	
1986-019FF				17397	ESA	22 FEB	14 APR 89	
1986-019FG				17421	ESA	22 FEB	10 FEB 89	
1986-019FH				17422	ESA	22 FEB	23 JUL 88	
1986-019FK				17424	ESA	22 FEB	25 NOV 89	
1986-019FL				17425	ESA	22 FEB	02 FEB 89	
1986-019FN				17427	ESA	22 FEB	26 DEC 89	
1986-019FR				17430	ESA	22 FEB	10 AUG 88	
1986-019FS				17431	ESA	22 FEB	25 MAR 89	
1986-019FT				17432	ESA	22 FEB	13 MAR 88	
1986-019FU				17433	ESA	22 FEB	20 AUG 89	
1986-019FV				17434	ESA	22 FEB	01 APR 89	
1986-019FW				17435	ESA	22 FEB	31 DEC 89	
1986-019FX				17436	ESA	22 FEB	06 FEB 89	
1986-019FY				17437	ESA	22 FEB	19 OCT 88	
1986-019GA				17439	ESA	22 FEB	10 APR 89	
1986-019GB				17440	ESA	22 FEB	29 OCT 87	
1986-019GC				17441	ESA	22 FEB	10 NOV 88	
1986-019GD				17442	ESA	22 FEB	05 DEC 89	
1986-019GE				17443	ESA	22 FEB	15 NOV 89	
1986-019GF				17444	ESA	22 FEB	03 FEB 91	
1986-019GG				17445	ESA	22 FEB	24 JUL 90	
1986-019GH				17446	ESA	22 FEB	20 OCT 89	
1986-019GJ				17447	ESA	22 FEB	20 JUL 88	
1986-019GK				17448	ESA	22 FEB	09 SEP 88	
1986-019GL				17449	ESA	22 FEB	17 JUN 89	
1986-019GM				17450	ESA	22 FEB	18 AUG 89	
1986-019GN				17451	ESA	22 FEB	19 NOV 89	
1986-019GP				17452	ESA	22 FEB	27 FEB 89	
1986-019GQ				17453	ESA	22 FEB	12 JUN 89	
1986-019GR				17454	ESA	22 FEB	18 JAN 89	
1986-019GS				17455	ESA	22 FEB	20 JUL 91	
1986-019GT				17456	ESA	22 FEB	23 DEC 88	
1986-019GU				17457	ESA	22 FEB	19 MAY 90	
1986-019GV				17458	ESA	22 FEB	29 SEP 90	
1986-019GX				17460	ESA	22 FEB	16 MAR 89	
1986-019GY				17461	ESA	22 FEB	17 NOV 90	
1986-019GZ				17462	ESA	22 FEB	15 OCT 88	
1986-019HA				17463	ESA	22 FEB	20 OCT 88	
1986-019HB				17464	ESA	22 FEB	22 APR 90	
1986-019HC				17465	ESA	22 FEB	12 JAN 90	
1986-019HE				17467	ESA	22 FEB	19 SEP 88	
1986-019HF				17468	ESA	22 FEB	07 NOV 88	
1986-019HG				17469	ESA	22 FEB	31 JAN 89	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-O19HH		17470	ESA	22 FEB	16 OCT 88	
1986-O19HK		17472	ESA	22 FEB	29 APR 91	
1986-O19HL		17473	ESA	22 FEB	26 NOV 89	
1986-O19HM		17474	ESA	22 FEB	26 OCT 88	
1986-O19HN		17475	ESA	22 FEB	02 DEC 88	
1986-O19HP		17476	ESA	22 FEB	26 AUG 89	
1986-O19HQ		17477	ESA	22 FEB	13 JUL 89	
1986-O19HS		17479	ESA	22 FEB	16 JUL 89	
1986-O19HT		17539	ESA	22 FEB	20 JUL 89	
1986-O19HU		17540	ESA	22 FEB	20 DEC 90	
1986-O19HW		17541	ESA	22 FEB	19 OCT 88	
1986-O19HZ		17542	ESA	22 FEB	14 DEC 88	
1986-O19HY		17544	ESA	22 FEB	13 MAR 89	
1986-O19JZ		17545	ESA	22 FEB	21 JUL 89	
1986-O19JA		17546	ESA	22 FEB	15 DEC 89	
1986-O19JB		17547	ESA	22 FEB	15 FEB 89	
1986-O19JC		17548	ESA	22 FEB	23 APR 89	
1986-O19JD		17549	ESA	22 FEB	09 OCT 88	
1986-O19JE		17550	ESA	22 FEB	07 SEP 89	
1986-O19JG		17552	ESA	22 FEB	17 MAR 90	
1986-O19JH		17553	ESA	22 FEB	22 OCT 89	
1986-O19JI		17554	ESA	22 FEB	19 NOV 93	
1986-O19JJ		17555	ESA	22 FEB	22 DEC 90	
1986-O19JK		17557	ESA	22 FEB	31 AUG 88	
1986-O19JM		17558	ESA	22 FEB	02 MAR 91	
1986-O19JN		17574	ESA	22 FEB	12 JAN 89	
1986-O19JP		17575	ESA	22 FEB	13 NOV 88	
1986-O19JQ		17576	ESA	22 FEB	07 AUG 89	
1986-O19JR		17591	ESA	22 FEB	28 APR 91	
1986-O19JS		17592	ESA	22 FEB	15 FEB 91	
1986-O19JT		17593	ESA	22 FEB	19 MAY 89	
1986-O19JU		17594	ESA	22 FEB	20 JAN 90	
1986-O19JW		17595	ESA	22 FEB	15 JAN 89	
1986-O19JX		17596	ESA	22 FEB	26 APR 89	
1986-O19JY		17597	ESA	22 FEB	13 JUL 88	
1986-O19JZ		17598	ESA	22 FEB	14 MAR 89	
1986-O19KA		17599	ESA	22 FEB	21 OCT 88	
1986-O19KB		17600	ESA	22 FEB	26 FEB 89	
1986-O19KC		17601	ESA	22 FEB	08 APR 89	
1986-O19KD		17602	ESA	22 FEB	07 FEB 90	
1986-O19KE		17603	ESA	22 FEB	02 FEB 89	
1986-O19KG		17605	ESA	22 FEB	23 MAY 89	
1986-O19KH		17606	ESA	22 FEB	30 OCT 89	
1986-O19KI		17607	ESA	22 FEB	16 FEB 89	
1986-O19KJ		17609	ESA	22 FEB	19 SEP 88	
1986-O19KL		17610	ESA	22 FEB	25 FEB 91	
1986-O19KM		17672	ESA	22 FEB	02 MAY 88	
1986-O19KN		17673	ESA	22 FEB	19 SEP 88	
1986-O19KP		17674	ESA	22 FEB	02 MAR 88	
1986-O19KQ		17675	ESA	22 FEB	29 APR 89	
1986-O19KR		17676	ESA	22 FEB	04 MAY 88	
1986-O19KS		17677	ESA	22 FEB		
1986-O19KT						



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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-019KU		17678	ESA	22 FEB	18 NOV 88	
1986-019KV		17679	ESA	22 FEB	28 MAR 89	
1986-019KW		17680	ESA	22 FEB	18 JAN 89	
1986-019KX		17681	ESA	22 FEB	31 OCT 88	
1986-019KY		17682	ESA	22 FEB	31 MAR 89	
1986-019KZ		17683	ESA	22 FEB	25 FEB 89	
1986-019LA		17684	ESA	22 FEB	08 MAY 89	
1986-019LB		17685	ESA	22 FEB	13 AUG 89	
1986-019LC		17686	ESA	22 FEB	11 DEC 87	
1986-019LD		17687	ESA	22 FEB	14 MAR 89	
1986-019LE		17688	ESA	22 FEB	28 APR 90	
1986-019LF		17689	ESA	22 FEB	17 JAN 88	
1986-019LG		17690	ESA	22 FEB	08 JUN 89	
1986-019LH		17691	ESA	22 FEB	14 JAN 89	
1986-019LJ		17692	ESA	22 FEB	17 FEB 89	
1986-019LK		17693	ESA	22 FEB	29 DEC 88	
1986-019LL		17694	ESA	22 FEB	30 MAR 89	
1986-019LM		17695	ESA	22 FEB	05 SEP 89	
1986-019LN		17696	ESA	22 FEB	03 DEC 89	
1986-019LP		17697	ESA	22 FEB	19 MAY 89	
1986-019LQ		17698	ESA	22 FEB	11 FEB 92	
1986-019LR		17699	ESA	22 FEB	06 JAN 90	
1986-019LS		17700	ESA	22 FEB	12 NOV 88	
1986-019LT		17701	ESA	22 FEB	05 NOV 87	
1986-019LW		17704	ESA	22 FEB	18 JAN 90	
1986-019LX		17808	ESA	22 FEB	01 MAR 88	
1986-019LY		17809	ESA	22 FEB	27 AUG 89	
1986-019LZ		17810	ESA	22 FEB	19 JAN 89	
1986-019MA		17811	ESA	22 FEB	22 JAN 88	
1986-019MB		17812	ESA	22 FEB	05 JUL 88	
1986-019MC		17813	ESA	22 FEB	15 FEB 91	
1986-019MD		17814	ESA	22 FEB	30 SEP 88	
1986-019ME		17816	ESA	22 FEB	27 MAR 89	
1986-019MF		17817	ESA	22 FEB	31 AUG 88	
1986-019MG		17942	ESA	22 FEB	13 APR 89	
1986-019MH		17943	ESA	22 FEB	23 APR 89	
1986-019MJ		17944	ESA	22 FEB	11 SEP 89	
1986-019MK		17945	ESA	22 FEB	17 MAR 89	
1986-019ML		17946	ESA	22 FEB	07 DEC 87	
1986-019MM		17947	ESA	22 FEB	06 NOV 88	
1986-019MN		17948	ESA	22 FEB	29 APR 88	
1986-019MP		17949	ESA	22 FEB	14 AUG 88	
1986-019MQ		17950	ESA	22 FEB	29 JAN 90	
1986-019MR		17951	ESA	22 FEB	11 DEC 88	
1986-019MS		17952	ESA	22 FEB	07 JAN 89	
1986-019MT		17953	ESA	22 FEB	05 JAN 89	
1986-019MU		17954	ESA	22 FEB	04 MAY 88	
1986-019MV		17955	ESA	22 FEB	15 OCT 88	
1986-019MW		17956	ESA	22 FEB	11 NOV 89	
1986-019MX		17957	ESA	22 FEB	02 NOV 89	
1986-019MZ		17958	ESA	22 FEB	27 AUG 89	
1986-019NA		17959	ESA	22 FEB	24 AUG 89	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-019NB		17960	ESA	22 FEB	21 AUG 89	
1986-019NC		17961	ESA	22 FEB	03 JAN 89	
1986-019ND		17977	ESA	22 FEB	04 JAN 89	
1986-019NE		17978	ESA	22 FEB	09 SEP 89	
1986-019NF		17979	ESA	22 FEB	03 FEB 88	
1986-019NG		17980	ESA	22 FEB	17 MAR 89	
1986-019NH		17982	ESA	22 FEB	16 MAR 89	
1986-019NL		17983	ESA	22 FEB	12 MAY 91	
1986-019NM		17984	ESA	22 FEB	21 APR 89	
1986-019NN		17985	ESA	22 FEB	11 OCT 87	
1986-019NP		17986	ESA	22 FEB	02 NOV 88	
1986-019NR		17987	ESA	22 FEB	02 NOV 88	
1986-019NS		17989	ESA	22 FEB	22 MAR 89	
1986-019NT		17990	ESA	22 FEB	10 OCT 88	
1986-019NU		17991	ESA	22 FEB	30 NOV 88	
1986-019NV		17992	ESA	22 FEB	03 JUN 89	
1986-019NW		17993	ESA	22 FEB	10 JAN 89	
1986-019NX		17994	ESA	22 FEB	20 OCT 89	
1986-019NY		17995	ESA	22 FEB	26 MAR 90	
1986-019NZ		17996	ESA	22 FEB	03 FEB 88	
1986-019PA		18132	ESA	22 FEB	02 NOV 88	
1986-019PB		18133	ESA	22 FEB	12 FEB 89	
1986-019PC		18134	ESA	22 FEB	16 OCT 88	
1986-019PD		18135	ESA	22 FEB	05 OCT 88	
1986-019PE		18136	ESA	22 FEB	03 NOV 88	
1986-019PF		18137	ESA	22 FEB	14 MAR 89	
1986-019PG		18138	ESA	22 FEB	06 JAN 89	
1986-019PH		18139	ESA	22 FEB	23 OCT 88	
1986-019PJ		18140	ESA	22 FEB	26 SEP 88	
1986-019PK		18141	ESA	22 FEB	10 NOV 87	
1986-019PL		18142	ESA	22 FEB	19 JAN 89	
1986-019PM		18143	ESA	22 FEB	14 OCT 89	
1986-019PN		18144	ESA	22 FEB	15 JUN 91	
1986-019PP		18145	ESA	22 FEB	27 MAR 90	
1986-019PQ		18146	ESA	22 FEB	14 AUG 89	
1986-019PR		18147	ESA	22 FEB	12 DEC 89	
1986-019PS		18148	ESA	22 FEB	14 DEC 88	
1986-019PT		18149	ESA	22 FEB	20 FEB 90	
1986-019PU		18150	ESA	22 FEB	19 SEP 89	
1986-019PV		18151	ESA	22 FEB	26 JUN 89	
1986-019PW		18164	ESA	22 FEB	29 AUG 87	
1986-019PX		18165	ESA	22 FEB	26 FEB 89	
1986-019PY		18166	ESA	22 FEB	21 MAR 89	
1986-019PZ		18167	ESA	22 FEB	13 MAR 89	
1986-019QA		18169	ESA	22 FEB	18 APR 90	
1986-019QB		18170	ESA	22 FEB	10 NOV 87	
1986-019QC		18171	ESA	22 FEB	21 OCT 89	
1986-019QD		18172	ESA	22 FEB	12 NOV 89	
1986-019QE		18173	ESA	22 FEB	25 MAY 89	
1986-019QF		18174	ESA	22 FEB	09 AUG 89	
1986-019QG		18175	ESA	22 FEB	19 JAN 88	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-O19QH		18176	ESA	22 FEB	27 OCT 89	
1986-O190J		18177	ESA	22 FEB	12 OCT 89	
1986-O190K		18178	ESA	22 FEB	26 MAR 90	
1986-O190L		18179	ESA	22 FEB	14 JAN 89	
1986-O190M		18180	ESA	22 FEB	24 JUL 89	
1986-O190N		18181	ESA	22 FEB	22 JUL 89	
1986-O190P		18182	ESA	22 FEB	13 JAN 89	
1986-O190Q		18183	ESA	22 FEB	27 APR 91	
1986-O190R		18194	ESA	22 FEB	24 MAY 88	
1986-O190S		18195	ESA	22 FEB	10 DEC 88	
1986-O190U		18197	ESA	22 FEB	02 NOV 88	
1986-O190V		18198	ESA	22 FEB	01 JUL 88	
1986-O190W		18199	ESA	22 FEB	27 FEB 90	
1986-O190X		18200	ESA	22 FEB	04 OCT 88	
1986-O190Y		18201	ESA	22 FEB	23 DEC 88	
1986-O190Z		18202	ESA	22 FEB	11 NOV 89	
1986-O190A		18203	ESA	22 FEB	07 MAY 89	
1986-O190B		18204	ESA	22 FEB	22 NOV 87	
1986-O190C		18205	ESA	22 FEB	24 NOV 88	
1986-O190D		18206	ESA	22 FEB	31 MAR 90	
1986-O190E		18207	ESA	22 FEB	20 MAY 89	
1986-O190G		18209	ESA	22 FEB	25 OCT 88	
1986-O190H		18210	ESA	22 FEB	09 MAR 89	
1986-O190J		18211	ESA	22 FEB	11 OCT 89	
1986-O190L		18213	ESA	22 FEB	06 APR 89	
1986-O190P		18234	ESA	22 FEB	05 NOV 89	
1986-O190Q		18261	ESA	22 FEB	19 FEB 89	
1986-O190R		18262	ESA	22 FEB	21 MAR 89	
1986-O190S		18263	ESA	22 FEB	18 FEB 89	
1986-O190T		18264	ESA	22 FEB	14 NOV 88	
1986-O190R		18265	ESA	22 FEB	12 FEB 89	
1986-O190V		18266	ESA	22 FEB	11 DEC 88	
1986-O190W		18267	ESA	22 FEB	05 JAN 89	
1986-O190X		18289	ESA	22 FEB	02 OCT 88	
1986-O190Z		18291	ESA	22 FEB	23 OCT 88	
1986-O190A		18292	ESA	22 FEB	10 DEC 88	
1986-O190B		18293	ESA	22 FEB	15 AUG 89	
1986-O190C		18294	ESA	22 FEB	04 FEB 89	
1986-O190D		18295	ESA	22 FEB	09 SEP 89	
1986-O190E		18296	ESA	22 FEB	10 MAR 89	
1986-O190F		18297	ESA	22 FEB	26 MAR 91	
1986-O190G		18298	ESA	22 FEB	19 APR 89	
1986-O190H		18299	ESA	22 FEB	07 JAN 89	
1986-O190J		18300	ESA	22 FEB	22 NOV 89	
1986-O190K		18404	ESA	22 FEB	05 OCT 88	
1986-O190L		18405	ESA	22 FEB	01 JUN 88	
1986-O190M		18406	ESA	22 FEB	01 JAN 89	
1986-O190N		18450	ESA	22 FEB	22 FEB 89	
1986-O190P		18451	ESA	22 FEB	29 DEC 88	
1986-O190Q		18452	ESA	22 FEB	28 APR 89	
1986-O190S		18454	ESA	22 FEB	01 APR 91	
1986-O190T		18455	ESA	22 FEB	12 APR 89	

INTER- NATIONAL DESIGNATION		DECEASED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
NAME													
1986-019SU				18456		ESA		22 FEB		23 MAR 89			
1986-019SV				18457		ESA		22 FEB		05 FEB 89			
1986-019SW				18458		ESA		22 FEB		27 OCT 88			
1986-019SX				18459		ESA		22 FEB		11 OCT 89			
1986-019SY				18460		ESA		22 FEB		14 MAY 89			
1986-019TA				18462		ESA		22 FEB		31 JAN 89			
1986-019TB				18522		ESA		22 FEB		26 NOV 88			
1986-019TD				18553		ESA		22 FEB		03 JUN 89			
1986-019TE				18554		ESA		22 FEB		01 AUG 88			
1986-019TF				18555		ESA		22 FEB		19 MAR 88			
1986-019TG				18557		ESA		22 FEB		10 MAR 89			
1986-019TH				18558		ESA		22 FEB		19 MAY 89			
1986-019TI				18559		ESA		22 FEB		20 JAN 89			
1986-019TJ				18563		ESA		22 FEB		26 SEP 88			
1986-019TK				18607		ESA		22 FEB		25 MAR 89			
1986-019TL				18611		ESA		22 FEB		11 MAY 91			
1986-019TM				18614		ESA		22 FEB		04 JUL 90			
1986-019TN				18642		ESA		22 FEB		28 MAY 91			
1986-019TP				18674		ESA		22 FEB		06 MAR 90			
1986-019TQ				18676		ESA		22 FEB		16 JUL 90			
1986-019TR				18683		ESA		22 FEB		17 JAN 89			
1986-019TS				18684		ESA		22 FEB		22 MAR 90			
1986-019TT				18685		ESA		22 FEB		04 DEC 88			
1986-019TV				18774		ESA		22 FEB		02 APR 89			
1986-019TW				18778		ESA		22 FEB		19 SEP 89			
1986-019TY				18781		ESA		22 FEB		21 FEB 89			
1986-019TZ				18782		ESA		22 FEB		31 JAN 89			
1986-019UA				18787		ESA		22 FEB		18 APR 89			
1986-019UB				18813		ESA		22 FEB		02 DEC 88			
1986-019UC				18817		ESA		22 FEB		18 SEP 88			
1986-019UD				18865		ESA		22 FEB		13 NOV 89			
1986-019UE				18903		ESA		22 FEB		26 MAR 89			
1986-019UF				18905		ESA		22 FEB		04 SEP 89			
1986-019UG				18914		ESA		22 FEB		30 MAY 89			
1986-019UH				19007		ESA		22 FEB		28 OCT 88			
1986-019UJ				19009		ESA		22 FEB		13 AUG 89			
1986-019UK				19034		ESA		22 FEB		26 FEB 88			
1986-019UL				19050		ESA		22 FEB		26 AUG 89			
1986-019UM				19107		ESA		22 FEB		02 MAY 91			
1986-019UN				19240		ESA		22 FEB		24 NOV 88			
1986-019UP				19246		ESA		22 FEB		01 NOV 89			
1986-019UR				19307		ESA		22 FEB		09 MAR 90			
1986-019UT				19313		ESA		22 FEB		02 FEB 89			
1986-019UU				19315		ESA		22 FEB		06 AUG 89			
1986-019UV				19356		ESA		22 FEB		03 DEC 89			
1986-019UX				19395		ESA		22 FEB		07 JUN 89			
1986-019UZ				19477		ESA		22 FEB		04 JAN 89			
1986-019VA				19513		ESA		22 FEB		11 SEP 89			
1986-019VC				19642		ESA		22 FEB		11 APR 89			
1986-019VD				19812		ESA		22 FEB		11 FEB 91			
1986-019VE				19834		ESA		22 FEB		23 AUG 89			
1986-019VF				19855		ESA		22 FEB		16 MAR 89			

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-019VG		19887	ESA	22 FEB	06 MAY 89	
1986-019VH		19892	ESA	22 FEB	22 JUL 89	
1986-019VJ		19966	ESA	22 FEB	06 JUL 89	
1986-019VK		19999	ESA	22 FEB	25 SEP 89	
1986-019VL		20050	ESA	22 FEB	09 APR 90	
1986-019VM		20173	ESA	22 FEB	26 JUL 90	
1986-020A	COSMOS 1734	16618	USSR	26 FEB	26 APR 86	
1986-020B		16619	USSR	26 FEB	03 MAR 86	
1986-020C		16692	USSR	26 FEB	27 APR 86	
1986-020D		16693	USSR	26 FEB	30 APR 86	
1986-021A	COSMOS 1735	16620	USSR	27 FEB	17 NOV 88	
1986-021B		16621	USSR	27 FEB	27 FEB 86	
1986-022A	SOYUZ T-15	16643	USSR	13 MAR	16 JUL 86	
1986-022B		16644	USSR	13 MAR	16 MAR 86	
1986-023A	PROGRESS 25	16645	USSR	19 MAR	21 APR 86	
1986-023B		16646	USSR	19 MAR	22 MAR 86	
1986-024C		16806	USSR	21 MAR	01 SEP 86	
1986-024D		16807	USSR	21 MAR	27 JUN 86	
1986-024E		16808	USSR	21 MAR	26 JUN 86	
1986-024F		16823	USSR	21 MAR	23 OCT 86	
1986-024G		16824	USSR	21 MAR	10 AUG 87	
1986-024H		16825	USSR	21 MAR	31 AUG 86	
1986-024J		16826	USSR	21 MAR	04 DEC 86	
1986-024K		16827	USSR	21 MAR	31 OCT 86	
1986-024L		16828	USSR	21 MAR	16 DEC 86	
1986-024M		16829	USSR	21 MAR	26 JUL 87	
1986-024N		16830	USSR	21 MAR	04 JUL 86	
1986-024P		16831	USSR	21 MAR	18 MAR 87	
1986-024Q		16832	USSR	21 MAR	15 AUG 87	
1986-024R		16833	USSR	21 MAR	06 NOV 86	
1986-024S		16834	USSR	21 MAR	04 NOV 86	
1986-024T		16835	USSR	21 MAR	23 OCT 86	
1986-024U		16836	USSR	21 MAR	06 MAR 87	
1986-024V		16837	USSR	21 MAR	14 JUL 86	
1986-024W		16838	USSR	21 MAR	10 SEP 86	
1986-024X		16839	USSR	21 MAR	28 FEB 87	
1986-024Y		16840	USSR	21 MAR	24 FEB 87	
1986-024Z		16841	USSR	21 MAR	22 JAN 88	
1986-024AA		16842	USSR	21 MAR	15 NOV 86	
1986-024AB		16857	USSR	21 MAR	14 NOV 86	
1986-024AC		16858	USSR	21 MAR	28 FEB 87	
1986-024AD		16859	USSR	21 MAR	16 DEC 86	
1986-024AE		16868	USSR	21 MAR	14 NOV 86	
1986-024AF		17030	USSR	21 MAR	13 NOV 86	
1986-025A	COSMOS 1737	16648	USSR	25 MAR	03 DEC 86	
1986-025B		16659	USSR	25 MAR	26 MAR 86	
1986-026D		16658	ESA	28 MAR	12 AUG 87	
1986-027B		16668	USSR	04 APR	08 APR 86	
1986-027C		16669	USSR	04 APR	05 APR 86	
1986-027D		16670	USSR	04 APR	27 OCT 86	
1986-027E		16671	USSR	04 APR	27 OCT 86	
1986-028A	COSMOS 1739	16677	USSR	09 APR	07 JUN 86	

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-028B		COSMOS 1740	16678	USSR	09 APR	14 APR 86	
1986-029A			16679	USSR	15 APR	28 APR 86	
1986-029B			16680	USSR	15 APR	27 APR 86	
1986-029C			16694	USSR	15 APR	14 DEC 86	
1986-029D			16695	USSR	15 APR	17 AUG 86	
1986-029E			16696	USSR	15 APR	18 MAR 87	
1986-029F			16697	USSR	15 APR	31 JUL 86	
1986-029G			16698	USSR	15 APR	07 OCT 86	
1986-029H			16699	USSR	15 APR	06 MAY 86	
1986-029J			16700	USSR	15 APR	11 MAY 86	
1986-029K		16701	USSR	15 APR	07 MAY 86		
1986-029L		16714	USSR	15 APR	18 APR 88		
1986-029M		16716	USSR	15 APR	08 MAY 86		
1986-031B		16684	USSR	18 APR	04 JUL 86		
1986-031C		16685	USSR	18 APR	12 JUN 86		
1986-032A		16687	USSR	23 APR	23 JUN 86		
1986-032B		16688	USSR	23 APR	26 APR 86		
1986-033A		16717	USSR	14 MAY	28 MAY 86		
1986-033B		16718	USSR	14 MAY	29 MAY 86		
1986-033C		16739	USSR	14 MAY	05 SEP 87		
1986-033D		16740	USSR	14 MAY	29 DEC 86		
1986-033E		16741	USSR	14 MAY	17 NOV 86		
1986-033F		16742	USSR	14 MAY	25 APR 88		
1986-033G		16743	USSR	14 MAY	28 JUN 86		
1986-033H		16744	USSR	14 MAY	31 OCT 86		
1986-035A		16722	USSR	21 MAY	30 MAY 86		
1986-035B		16723	USSR	21 MAY	24 MAY 86		
1986-035C		16748	USSR	21 MAY	22 MAR 87		
1986-036A		16724	USSR	21 MAY	04 JUN 86		
1986-036B		16725	USSR	21 MAY	24 JUN 86		
1986-036C		16753	USSR	21 MAY	05 JUN 86		
1986-036D		16754	USSR	21 MAY	18 AUG 86		
1986-036E		16755	USSR	21 MAY	21 JUN 86		
1986-036F		16756	USSR	21 MAY	25 JUL 86		
1986-036G		16757	USSR	21 MAY	07 JUN 86		
1986-038B		16730	USSR	24 MAY	26 MAY 86		
1986-038C		16731	USSR	24 MAY	24 MAY 86		
1986-038F		16734	USSR	24 MAY	28 DEC 86		
1986-040A		16737	USSR	28 MAY	12 JUN 86		
1986-040B		16738	USSR	28 MAY	02 JUN 86		
1986-040C		16747	USSR	28 MAY	08 JUN 86		
1986-040D		16783	USSR	28 MAY	13 JUN 86		
1986-040E		16784	USSR	28 MAY	13 JUN 86		
1986-040F		16785	USSR	28 MAY	13 JUN 86		
1986-040G		16786	USSR	28 MAY	13 JUN 86		
1986-040H		16787	USSR	28 MAY	07 JUL 86		
1986-040J		16788	USSR	28 MAY	23 JUN 86		
1986-041A		16745	USSR	29 MAY	12 JUN 86		
1986-041B		16746	USSR	29 MAY	25 JUN 86		
1986-041C		16793	USSR	19 MAY	22 JUN 86		
1986-041D		16794	USSR	29 MAY	25 JUN 86		
1986-041E		16795	USSR	29 MAY	14 JUN 86		
1986-041F		16796	USSR	29 MAY	14 JUN 86		

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-041F							
1986-043A		COSMOS 1756	16796	USSR	29 MAY	15 JUN 86	
1986-043B			16767	USSR	06 JUN	04 AUG 86	
1986-044B			16768	USSR	06 JUN	13 JUN 86	
1986-044C			16770	USSR	10 JUN	12 JUN 86	
1986-044D			16771	USSR	10 JUN	11 JUN 86	
1986-044E			16789	USSR	10 JUN	07 MAR 90	
1986-045A		COSMOS 1757	16790	USSR	10 JUN	12 AUG 87	
1986-045B			16772	USSR	11 JUN	25 JUN 86	
1986-045C			16773	USSR	11 JUN	13 JUN 86	
1986-045D			16816	USSR	11 JUN	27 JUN 86	
1986-045E			16817	USSR	11 JUN	05 JUL 86	
1986-045F			16818	USSR	11 JUN	27 JUN 86	
1986-045G			16819	USSR	11 JUN	09 JUL 86	
1986-048A		COSMOS 1760	16820	USSR	11 JUN	29 JUN 86	
1986-048B			16800	USSR	19 JUN	03 JUL 86	
1986-048C			16801	USSR	19 JUN	19 JUL 86	
1986-048D			16844	USSR	19 JUN	24 MAR 88	
1986-048E			16845	USSR	19 JUN	23 MAR 87	
1986-048F			16846	USSR	19 JUN	17 MAR 87	
1986-048G			16847	USSR	19 JUN	27 JUL 86	
1986-049B			16848	USSR	19 JUN	26 DEC 86	
1986-049C			16803	USSR	19 JUN	27 SEP 86	
1986-050B			16804	USSR	19 JUN	01 OCT 86	
1986-050C			16850	USSR	05 JUL	19 SEP 86	
1986-051A		COSMOS 1762	16851	USSR	05 JUL	16 AUG 86	
1986-051B			16855	USSR	10 JUL	24 JUL 86	
1986-051C			16856	USSR	10 JUL	15 JUL 86	
1986-051D			16871	USSR	10 JUL	21 AUG 86	
1986-051E			16872	USSR	10 JUL	03 AUG 86	
1986-051F			16873	USSR	10 JUL	31 JUL 86	
1986-051G			16876	USSR	10 JUL	22 SEP 86	
1986-053A		COSMOS 1764	16880	USSR	16 JUL	05 AUG 86	
1986-053B			16861	USSR	16 JUL	11 SEP 86	
1986-054A		COSMOS 1765	16862	USSR	17 JUL	26 JUL 86	
1986-054B			16874	USSR	24 JUL	07 AUG 86	
1986-054C			16875	USSR	24 JUL	08 AUG 86	
1986-054D			16899	USSR	24 JUL	06 NOV 86	
1986-054E			16900	USSR	24 JUL	14 MAY 87	
1986-054F			16901	USSR	24 JUL	23 SEP 86	
1986-054G			16902	USSR	24 JUL	20 MAR 87	
1986-054H			16903	USSR	24 JUL	18 SEP 86	
1986-054I			16904	USSR	24 JUL	14 SEP 86	
1986-054J			16905	USSR	24 JUL	12 MAY 88	
1986-054K			16906	USSR	24 JUL	11 SEP 86	
1986-054L			16907	USSR	24 JUL	14 SEP 86	
1986-054M			17175	USSR	24 JUL	03 FEB 87	
1986-056A		COSMOS 1767	16883	USSR	30 JUL	16 AUG 86	
1986-056B			16884	USSR	30 JUL	04 AUG 86	
1986-056C			16888	USSR	30 JUL	18 AUG 86	
1986-056D			16892	USSR	30 JUL	11 AUG 86	
1986-056E			16893	USSR	30 JUL	12 AUG 86	
1986-056F			16894	USSR	30 JUL	20 AUG 86	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-057B	COSMOS 1768		16886	USSR	30 JUL	19 OCT 86	
1986-057C			16887	USSR	30 JUL	05 OCT 86	
1986-058A			16890	USSR	02 AUG	16 AUG 86	
1986-058B			16891	USSR	02 AUG	07 AUG 86	
1986-058C			16911	USSR	02 AUG	19 OCT 86	
1986-058D			16912	USSR	02 AUG	16 SEP 86	
1986-058E			16913	USSR	02 AUG	24 AUG 86	
1986-058F			16914	USSR	02 AUG	17 AUG 86	
1986-058G			16915	USSR	02 AUG	29 AUG 86	
1986-058H			16916	USSR	02 AUG	31 AUG 86	
1986-059A	COSMOS 1769		16895	USSR	04 AUG	18 FEB 88	
1986-059B			16896	USSR	04 AUG	04 AUG 86	
1986-059C			18354	USSR	04 AUG	10 OCT 87	
1986-059D			18382	USSR	04 AUG	14 DEC 87	
1986-059E			18383	USSR	04 AUG	07 OCT 87	
1986-060A	COSMOS 1770		16897	USSR	06 AUG	02 FEB 87	
1986-060B			16898	USSR	06 AUG	12 AUG 86	
1986-060C			17398	USSR	06 AUG	05 FEB 87	
1986-062B			17034	USSR	20 AUG	20 OCT 86	
1986-062D			17036	USSR	20 AUG	29 NOV 86	
1986-063A	COSMOS 1772		16918	USSR	21 AUG	03 SEP 86	
1986-063B			16919	USSR	21 AUG	02 SEP 86	
1986-063C			16930	USSR	21 AUG	09 APR 87	
1986-063D			16931	USSR	21 AUG	13 MAY 88	
1986-063E			16932	USSR	21 AUG	07 JAN 87	
1986-063F			16933	USSR	21 AUG	19 MAR 87	
1986-063G			17301	USSR	21 AUG	21 OCT 86	
1986-064A			16920	USSR	27 AUG	22 OCT 86	
1986-064B			16921	USSR	27 AUG	01 OCT 86	
1986-065B			16923	USSR	28 AUG	01 OCT 86	
1986-065C	COSMOS 1775		16924	USSR	28 AUG	17 SEP 86	
1986-065D			16926	USSR	03 SEP	25 SEP 86	
1986-065E			16927	USSR	03 SEP	12 APR 88	
1986-065F			16970	USSR	03 SEP	01 MAR 87	
1986-065G			16971	USSR	03 SEP	20 DEC 86	
1986-065H			16972	USSR	03 SEP	02 APR 87	
1986-065I			16973	USSR	03 SEP	27 SEP 86	
1986-065J			16975	USSR	03 SEP	07 OCT 86	
1986-065K			16976	USSR	03 SEP	02 OCT 86	
1986-065L			16977	USSR	03 SEP	10 OCT 86	
1986-066A	COSMOS 1776		16978	USSR	03 SEP	21 DEC 86	
1986-066B			16979	USSR	03 SEP	15 DEC 89	
1986-066C			16928	USSR	03 SEP	26 OCT 89	
1986-066D			16929	USSR	03 SEP	30 OCT 87	
1986-066E			17006	USSR	03 SEP	14 OCT 87	
1986-066F			17007	USSR	03 SEP	08 NOV 87	
1986-066G			17008	USSR	03 SEP	24 OCT 87	
1986-066H			17009	USSR	03 SEP	09 DEC 87	
1986-066I			17258	USSR	03 SEP	29 NOV 87	
1986-066J			17259	USSR	03 SEP	23 NOV 87	
1986-066K			17260	USSR	03 SEP	14 NOV 87	
1986-066L			17261	USSR	03 SEP		



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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-067L		17334	USSR	03 SEP	04 DEC 87	
1986-067M		17335	USSR	03 SEP	09 NOV 87	
1986-067N		17356	USSR	03 SEP	27 DEC 87	
1986-067P		17357	USSR	03 SEP	22 NOV 87	
1986-067Q		17537	USSR	03 SEP	24 NOV 87	
1986-067R		17538	USSR	03 SEP	28 DEC 87	
1986-067S		18026	USSR	03 SEP	13 JAN 88	
1986-067T		18027	USSR	03 SEP	07 FEB 88	
1986-067U		18434	USSR	03 SEP	20 SEP 88	
1986-067V		18435	USSR	03 SEP	14 SEP 88	
1986-067W		18855	USSR	03 SEP	28 MAY 88	
1986-067X		18856	USSR	03 SEP	13 JUN 88	
1986-067Y		19375	USSR	03 SEP	18 OCT 88	
1986-067Z		19376	USSR	03 SEP	01 OCT 88	
1986-067AA		19410	USSR	03 SEP	20 OCT 88	
1986-067AB		19411	USSR	03 SEP	10 OCT 88	
1986-067AC		19545	USSR	03 SEP	08 NOV 88	
1986-067AD		19546	USSR	03 SEP	31 OCT 88	
1986-067AE		20272	USSR	03 SEP	05 OCT 89	
1986-067AF		20273	USSR	03 SEP	05 OCT 89	
1986-068B		16935	USSR	05 SEP	12 OCT 86	
1986-068C		16936	USSR	05 SEP	06 NOV 86	
1986-069A		16937	US	05 SEP	28 SEP 86	
1986-069B		16938	US	05 SEP	25 NOV 86	
1986-069C		16940	US	05 SEP	24 SEP 86	
1986-069D		16941	US	05 SEP	14 APR 87	
1986-069E		16942	US	05 SEP	10 NOV 86	
1986-069F		16943	US	05 SEP	11 DEC 86	
1986-069G		16944	US	05 SEP	23 OCT 86	
1986-069H		16945	*US	05 SEP	31 OCT 86	
1986-069J		16946	US	05 SEP	30 MAR 87	
1986-069K		16947	US	05 SEP	16 SEP 86	
1986-069L		16948	US	05 SEP	15 NOV 86	
1986-069M		16949	US	05 SEP	23 SEP 86	
1986-069N		16950	US	05 SEP	13 SEP 86	
1986-069P		16951	US	05 SEP	21 OCT 86	
1986-069Q		17019	US	05 SEP	20 MAR 87	
1986-069R		17020	US	05 SEP	29 OCT 86	
1986-069S		17021	US	05 SEP	26 OCT 86	
1986-069T		17022	US	05 SEP	31 OCT 86	
1986-071D		16964	USSR	16 SEP	16 SEP 86	
1986-071E		16965	USSR	16 SEP	16 SEP 86	
1986-071G		16984	USSR	16 SEP	29 JAN 93	
1986-071H		16985	USSR	16 SEP	26 NOV 92	
1986-072A		16966	USSR	17 SEP	01 OCT 86	
1986-072B		16967	USSR	17 SEP	07 OCT 86	
1986-072C		16974	USSR	17 SEP	20 SEP 86	
1986-072D		16988	USSR	17 SEP	09 APR 88	
1986-072E		16989	USSR	17 SEP	20 MAY 87	
1986-072F		16990	USSR	17 SEP	19 MAY 87	
1986-072G		16991	USSR	17 SEP	29 DEC 86	
1986-072H		16992	USSR	17 SEP	13 JAN 87	

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INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986-072J			17049	USSR	17 SEP	01 DEC 86	
1986-073C			16983	US	17 SEP	04 AUG 91	
1986-074C			19432	USSR	30 SEP	13 MAR 89	
1986-075B			16994	USSR	03 OCT	22 NOV 86	
1986-075C			16995	USSR	03 OCT	08 NOV 86	
1986-075E			16998	USSR	03 OCT	12 NOV 86	
1986-076A	PRC 19		17001	PRC	06 OCT	23 OCT 86	
1986-076B			17002	PRC	06 OCT	20 OCT 86	
1986-076C			17005	PRC	06 OCT	08 OCT 86	
1986-076D			17028	PRC	06 OCT	12 OCT 86	
1986-077A	COSMOS 1784		17003	USSR	06 OCT	11 NOV 86	
1986-077B			17004	USSR	06 OCT	12 OCT 86	
1986-078B			17032	USSR	15 OCT	18 NOV 86	
1986-078C			17033	USSR	15 OCT	09 DEC 86	
1986-079B			17039	USSR	20 OCT	22 DEC 86	
1986-079C			17040	USSR	20 OCT	12 DEC 86	
1986-080A	COSMOS 1786		17042	USSR	22 OCT	06 MAR 88	
1986-080B			17043	USSR	22 OCT	08 APR 88	
1986-081A	COSMOS 1787		17044	USSR	22 OCT	04 NOV 86	
1986-081B			17045	USSR	22 OCT	30 OCT 86	
1986-081C			17058	USSR	22 OCT	20 NOV 86	
1986-081D			17061	USSR	22 OCT	17 NOV 86	
1986-081E			17062	USSR	22 OCT	31 DEC 86	
1986-081F			17063	USSR	22 OCT	09 NOV 86	
1986-081G			17064	USSR	22 OCT	08 NOV 86	
1986-082B			17047	USSR	25 OCT	28 OCT 86	
1986-082C			17048	USSR	25 OCT	26 OCT 86	
1986-083A	COSMOS 1788		17050	USSR	27 OCT	21 JAN 91	
1986-083B			17051	USSR	27 OCT	05 JAN 90	
1986-084A	COSMOS 1789		17054	USSR	31 OCT	14 NOV 86	
1986-084B			17055	USSR	31 OCT	04 NOV 86	
1986-084C			17072	USSR	31 OCT	27 AUG 87	
1986-084D			17073	USSR	31 OCT	19 DEC 86	
1986-084E			17074	USSR	31 OCT	07 JAN 87	
1986-084F			17075	USSR	31 OCT	19 NOV 86	
1986-084G			17076	USSR	31 OCT	19 NOV 86	
1986-084H			17077	USSR	31 OCT	21 FEB 87	
1986-085A	COSMOS 1790		17056	USSR	04 NOV	18 NOV 86	
1986-085B			17057	USSR	04 NOV	09 NOV 86	
1986-085C			17082	USSR	04 NOV	21 NOV 86	
1986-085D			17086	USSR	04 NOV	26 NOV 86	
1986-085E			17087	USSR	04 NOV	23 NOV 86	
1986-085F			17088	USSR	04 NOV	24 NOV 86	
1986-085G			17089	USSR	04 NOV	10 DEC 86	
1986-087A	COSMOS 1792		17068	USSR	13 NOV	05 JAN 87	
1986-087B			17069	USSR	13 NOV	19 NOV 86	
1986-089B			17079	USSR	15 NOV	19 DEC 86	
1986-089C			17080	USSR	15 NOV	28 DEC 86	
1986-090B			17084	USSR	18 NOV	21 NOV 86	
1986-090C			17085	USSR	18 NOV	19 NOV 86	
1986-090E			17148	USSR	18 NOV	12 AUG 87	
1986-091B			17135	USSR	20 NOV	27 JAN 87	

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1986-091C		17136	USSR	20 NOV	23 DEC 86	
1986-095A	COSMOS 1804	17179	USSR	04 DEC	18 DEC 86	
1986-095B		17180	USSR	04 DEC	31 DEC 86	
1986-095C		17243	USSR	04 DEC	04 SEP 87	
1986-095D		17244	USSR	04 DEC	13 APR 88	
1986-095E		17245	USSR	04 DEC	26 MAY 87	
1986-095F		17246	USSR	04 DEC	15 APR 87	
1986-095G		17252	USSR	04 DEC	08 APR 87	
1986-096B		17182	US	05 DEC	13 MAR 88	
1986-098B		17214	USSR	12 DEC	23 FEB 87	
1986-098C		17215	USSR	12 DEC	10 FEB 87	
1986-099A	COSMOS 1807	17217	USSR	16 DEC	23 JAN 87	
1986-099B		17218	USSR	16 DEC	22 DEC 86	
1986-102A	COSMOS 1810	17262	USSR	26 DEC	11 SEP 87	
1986-102B		17263	USSR	26 DEC	31 DEC 86	
1986-102C		18345	USSR	26 DEC	11 SEP 87	
1986-102D		18346	USSR	26 DEC	12 SEP 87	
1986-102E		18347	USSR	26 DEC	12 SEP 87	
1986-103B		17265	USSR	26 DEC	02 FEB 87	
1986-103C		17266	USSR	26 DEC	21 JAN 87	
1986-103E		17276	USSR	26 DEC	27 JAN 86	
1988-070C		19388	USSR	19 FEB	17 AUG 88	

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1974-089EZ		18359	USSR	16 SEP	16 SEP 87	
1986-019RM		18228	ESA	22 FEB	19 JUL 89	
1987-002A	COSMOS 1811	17292	USSR	09 JAN	13 FEB 87	
1987-002B		17293	USSR	09 JAN	16 JAN 87	
1987-002C		17294	USSR	09 JAN	11 JAN 87	
1987-004A	COSMOS 1813	17297	USSR	15 JAN	13 MAR 89	
1987-004B		17298	USSR	15 JAN	01 FEB 87	
1987-004C		17361	USSR	15 JAN	27 JUN 87	
1987-004D		17362	USSR	15 JAN	01 FEB 87	
1987-004E		17363	USSR	15 JAN	25 APR 87	
1987-004F		17364	USSR	15 JAN	14 JUN 87	
1987-004G		17401	USSR	15 JAN	04 JUN 87	
1987-004H		17402	USSR	15 JAN	30 DEC 88	
1987-004J		17403	USSR	15 JAN	24 FEB 87	
1987-004K		17404	USSR	15 JAN	29 DEC 88	
1987-004L		17405	USSR	15 JAN	24 AUG 88	
1987-004M		17406	USSR	15 JAN	07 NOV 88	
1987-004N		17407	USSR	15 JAN	16 NOV 88	
1987-004P		17408	USSR	15 JAN	22 JAN 89	
1987-004Q		17409	USSR	15 JAN	22 FEB 87	
1987-004R		17410	USSR	15 JAN	28 MAR 87	
1987-004S		17411	USSR	15 JAN	20 FEB 87	
1987-004T		17412	USSR	15 JAN	07 JAN 88	
1987-004U		17413	USSR	15 JAN	27 JUL 87	
1987-004V		17414	USSR	15 JAN	17 JAN 89	
1987-004W		17415	USSR	15 JAN	13 JUN 89	
1987-004X		17416	USSR	15 JAN	02 JUN 88	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-004Y		17417	USSR	15 JAN	18 JAN 88	
1987-004Z		17418	USSR	15 JAN	06 MAR 87	
1987-004AA		17419	USSR	15 JAN	31 AUG 87	
1987-004AB		17420	USSR	15 JAN	10 DEC 87	
1987-004AC		17488	USSR	15 JAN	05 OCT 88	
1987-004AD		17489	USSR	15 JAN	22 SEP 88	
1987-004AE		17490	USSR	15 JAN	22 MAR 87	
1987-004AF		17491	USSR	15 JAN	07 OCT 87	
1987-004AG		17492	USSR	15 JAN	17 NOV 88	
1987-004AH		17493	USSR	15 JAN	03 NOV 88	
1987-004AJ		17494	USSR	15 JAN	03 SEP 88	
1987-004AK		17495	USSR	15 JAN	07 DEC 88	
1987-004AL		17496	USSR	15 JAN	14 APR 87	
1987-004AM		17497	USSR	15 JAN	27 MAR 87	
1987-004AN		17498	USSR	15 JAN	05 DEC 88	
1987-004AP		17499	USSR	15 JAN	22 APR 88	
1987-004AQ		17500	USSR	15 JAN	30 JAN 90	
1987-004AR		17501	USSR	15 JAN	25 OCT 88	
1987-004AS		17502	USSR	15 JAN	31 DEC 88	
1987-004AT		17503	USSR	15 JAN	16 SEP 87	
1987-004AU		17504	USSR	15 JAN	02 SEP 87	
1987-004AV		17505	USSR	15 JAN	27 OCT 87	
1987-004AW		17508	USSR	15 JAN	14 APR 87	
1987-004AX		17509	USSR	15 JAN	11 AUG 87	
1987-004AY		17510	USSR	15 JAN	30 JUN 87	
1987-004AZ		17511	USSR	15 JAN	20 AUG 87	
1987-004BA		17512	USSR	15 JAN	03 JUN 87	
1987-004BB		17513	USSR	15 JAN	21 JUN 87	
1987-004BC		17514	USSR	15 JAN	22 JUN 87	
1987-004BD		17515	USSR	15 JAN	17 MAY 87	
1987-004BE		17516	USSR	15 JAN	17 SEP 88	
1987-004BF		17517	USSR	15 JAN	22 NOV 87	
1987-004BG		17518	USSR	15 JAN	27 APR 87	
1987-004BH		17519	USSR	15 JAN	16 AUG 87	
1987-004BJ		17520	USSR	15 JAN	05 MAY 87	
1987-004BK		17521	USSR	15 JAN	12 JUL 88	
1987-004BL		17522	USSR	15 JAN	29 NOV 87	
1987-004BM		17556	USSR	15 JAN	18 MAR 89	
1987-004BN		17557	USSR	15 JAN	10 OCT 87	
1987-004BP		17758	USSR	15 JAN	19 OCT 87	
1987-004BQ		17759	USSR	15 JAN	13 SEP 87	
1987-004BR		17760	USSR	15 JAN	29 DEC 87	
1987-004BS		17761	USSR	15 JAN	09 JAN 88	
1987-004BT		17762	USSR	15 JAN	17 JAN 89	
1987-004BU		17852	USSR	15 JAN	14 AUG 88	
1987-004BV		17853	USSR	15 JAN	09 JUL 87	
1987-004BW		17854	USSR	15 JAN	11 OCT 87	
1987-004BX		17855	USSR	15 JAN	31 DEC 87	
1987-004BY		17856	USSR	15 JAN	13 APR 87	
1987-004BZ		17857	USSR	15 JAN	31 OCT 87	
1987-004CA		17858	USSR	15 JAN	12 SEP 87	
1987-004CB		17859	USSR	15 JAN	09 MAY 87	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-004CC		17860	USSR	15 JAN	15 APR 87	
1987-004CD		17861	USSR	15 JAN	11 SEP 87	
1987-004CE		17862	USSR	15 JAN	14 SEP 87	
1987-004CF		17863	USSR	15 JAN	28 AUG 87	
1987-004CG		17864	USSR	15 JAN	06 OCT 87	
1987-004CH		17865	USSR	15 JAN	21 MAY 87	
1987-004CJ		17866	USSR	15 JAN	11 JUL 87	
1987-004CK		17867	USSR	15 JAN	13 AUG 87	
1987-004CL		17868	USSR	15 JAN	24 MAY 87	
1987-004CM		17869	USSR	15 JAN	13 JUL 87	
1987-004CN		17870	USSR	15 JAN	02 JUN 87	
1987-004CP		17871	USSR	15 JAN	15 OCT 87	
1987-004CQ		17882	USSR	15 JAN	04 MAY 88	
1987-004CR		17883	USSR	15 JAN	05 DEC 87	
1987-004CS		17884	USSR	15 JAN	03 AUG 88	
1987-004CT		17885	USSR	15 JAN	26 JAN 88	
1987-004CU		17886	USSR	15 JAN	12 SEP 88	
1987-004CV		17887	USSR	15 JAN	29 DEC 87	
1987-004CW		17888	USSR	15 JAN	17 AUG 87	
1987-004CX		17889	USSR	15 JAN	13 AUG 87	
1987-004CY		17890	USSR	15 JAN	25 AUG 87	
1987-004CZ		17891	USSR	15 JAN	25 NOV 87	
1987-004DA		17892	USSR	15 JAN	02 APR 88	
1987-004DB		17893	USSR	15 JAN	14 OCT 87	
1987-004DC		17894	USSR	15 JAN	24 SEP 87	
1987-004DD		17895	USSR	15 JAN	05 OCT 87	
1987-004DE		17896	USSR	15 JAN	26 AUG 88	
1987-004DF		17897	USSR	15 JAN	11 SEP 87	
1987-004DG		17898	USSR	15 JAN	15 SEP 88	
1987-004DH		17899	USSR	15 JAN	05 NOV 88	
1987-004DJ		17900	USSR	15 JAN	25 OCT 89	
1987-004DK		17901	USSR	15 JAN	05 JUL 88	
1987-004DL		17919	USSR	15 JAN	22 JAN 89	
1987-004DM		17920	USSR	15 JAN	03 AUG 88	
1987-004DN		17921	USSR	15 JAN	19 JUL 87	
1987-004DP		17922	USSR	15 JAN	01 SEP 87	
1987-004DQ		17923	USSR	15 JAN	25 AUG 87	
1987-004DR		17924	USSR	15 JAN	14 OCT 88	
1987-004DS		17925	USSR	15 JAN	19 JUN 89	
1987-004DT		17926	USSR	15 JAN	21 JUN 89	
1987-004DU		17927	USSR	15 JAN	22 SEP 87	
1987-004DV		17928	USSR	15 JAN	11 JUN 87	
1987-004DW		17929	USSR	15 JAN	10 OCT 87	
1987-004DX		17930	USSR	15 JAN	10 JAN 88	
1987-004DY		17931	USSR	15 JAN	13 SEP 88	
1987-004DZ		17932	USSR	15 JAN	27 FEB 88	
1987-004EA		17933	USSR	15 JAN	07 SEP 87	
1987-004EB		17934	USSR	15 JAN	09 SEP 87	
1987-004EC		17935	USSR	15 JAN	27 JUN 87	
1987-004ED		17936	USSR	15 JAN	28 NOV 87	
1987-004EE		17937	USSR	15 JAN	06 OCT 87	
1987-004EF		17938	USSR	15 JAN	29 NOV 87	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-004EF		18030	USSR	15 JAN	13 JUN 87	
1987-004EG		18029	USSR	15 JAN	18 JUN 87	
1987-004EJ		18031	USSR	15 JAN	22 SEP 87	
1987-004EK		18032	USSR	15 JAN	29 SEP 87	
1987-004EL		18033	USSR	15 JAN	31 OCT 87	
1987-004EM		18034	USSR	15 JAN	30 SEP 87	
1987-004EN		18035	USSR	15 JAN	12 JUL 87	
1987-004EP		18036	USSR	15 JAN	10 OCT 88	
1987-004EQ		18037	USSR	15 JAN	09 JAN 88	
1987-004ER		18038	USSR	15 JAN	29 OCT 87	
1987-004ES		18039	USSR	15 JAN	22 JAN 89	
1987-004ET		18040	USSR	15 JAN	15 SEP 87	
1987-004EU		18041	USSR	15 JAN	02 SEP 87	
1987-004EV		18042	USSR	15 JAN	01 NOV 88	
1987-004EW		18043	USSR	15 JAN	06 AUG 87	
1987-004EX		18044	USSR	15 JAN	31 MAR 88	
1987-004EY		18045	USSR	15 JAN	31 JUL 88	
1987-004EZ		18046	USSR	15 JAN	15 MAR 89	
1987-004FA		18047	USSR	15 JAN	23 OCT 87	
1987-004FB		18048	USSR	15 JAN	17 AUG 87	
1987-004FC		18049	USSR	15 JAN	23 OCT 88	
1987-004FD		18050	USSR	15 JAN	18 OCT 88	
1987-004FE		18051	USSR	15 JAN	24 JUL 87	
1987-004FF		18052	USSR	15 JAN	17 JUL 87	
1987-004FG		18053	USSR	15 JAN	29 JUN 87	
1987-004FH		18054	USSR	15 JAN	24 OCT 87	
1987-004FJ		18055	USSR	15 JAN	09 AUG 87	
1987-004FK		18056	USSR	15 JAN	02 OCT 87	
1987-004FL		18057	USSR	15 JAN	24 SEP 88	
1987-004FM		18058	USSR	15 JAN	19 SEP 88	
1987-004FN		18059	USSR	15 JAN	03 SEP 87	
1987-004FP		18060	USSR	15 JAN	23 JUL 87	
1987-004FQ		18061	USSR	15 JAN	20 OCT 87	
1987-004FR		18062	USSR	15 JAN	09 SEP 87	
1987-004FS		18063	USSR	15 JAN	13 SEP 87	
1987-004FT		18064	USSR	15 JAN	11 SEP 87	
1987-004FU		18065	USSR	15 JAN	04 AUG 87	
1987-004FV		18066	USSR	15 JAN	27 MAR 88	
1987-004FW		18067	USSR	15 JAN	25 FEB 88	
1987-004FX		18068	USSR	15 JAN	29 AUG 87	
1987-004FY		18069	USSR	15 JAN	12 FEB 88	
1987-004FZ		18070	USSR	15 JAN	10 MAR 88	
1987-004GA		18071	USSR	15 JAN	06 SEP 87	
1987-004GB		18072	USSR	15 JAN	19 SEP 87	
1987-004GC		18073	USSR	15 JAN	03 OCT 87	
1987-004GD		18074	USSR	15 JAN	12 AUG 87	
1987-004GE		18075	USSR	15 JAN	27 APR 88	
1987-004GF		18076	USSR	15 JAN	19 SEP 87	
1987-004GG		18077	USSR	15 JAN	16 FEB 88	
1987-004GH		18078	USSR	15 JAN	19 JUL 87	
1987-004GJ		18079	USSR	15 JAN	28 JUN 87	
1987-004GK		18080	USSR	15 JAN		

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-004GL		1808 1	USSR	15 JAN	03 SEP 87	
1987-004GM		18082	USSR	15 JAN	15 JAN 88	
1987-004GN		18230	USSR	15 JAN	24 AUG 87	
1987-004GP		18235	USSR	15 JAN	25 OCT 87	
1987-004GQ		18236	USSR	15 JAN	04 NOV 87	
1987-004GS		18305	USSR	15 JAN	17 OCT 88	
1987-004GT		18514	USSR	15 JAN	21 NOV 87	
1987-004GU		18515	USSR	15 JAN	30 JAN 88	
1987-004GV		18595	USSR	15 JAN	11 FEB 89	
1987-004GW		18596	USSR	15 JAN	05 MAR 89	
1987-004GX		18609	USSR	15 JAN	29 SEP 88	
1987-004GY		18696	USSR	15 JAN	26 MAR 88	
1987-004GZ		18815	USSR	15 JAN	09 FEB 89	
1987-004HA		18909	USSR	15 JAN	01 MAY 88	
1987-004HB		19063	USSR	15 JAN	11 MAY 88	
1987-004HC		19563	USSR	15 JAN	13 JAN 89	
1987-005A	PROGRESS 27	17299	USSR	16 JAN	25 FEB 87	
1987-005B		17300	USSR	16 JAN	20 JAN 87	
1987-007A	COSMOS 1815	17326	USSR	22 JAN	15 NOV 88	
1987-007B		17327	USSR	22 JAN	06 OCT 88	
1987-008B		17329	USSR	22 JAN	01 MAR 87	
1987-008C		17330	USSR	22 JAN	25 FEB 87	
1987-010A	COSMOS 1817	17365	USSR	30 JAN	31 JAN 87	
1987-010B		17366	USSR	30 JAN	02 FEB 87	
1987-010C		17367	USSR	30 JAN	18 MAR 87	
1987-010D		17368	USSR	30 JAN	13 FEB 87	
1987-011B		17370	USSR	01 FEB	02 FEB 87	
1987-011C		17399	USSR	01 FEB	29 JUL 90	
1987-011D	ASTRO C	17400	USSR	01 FEB	04 MAY 90	
1987-012A		17480	JAPAN	05 FEB	01 NOV 91	
1987-012C		18229	JAPAN	05 FEB	25 NOV 88	
1987-012D		18238	JAPAN	05 FEB	08 OCT 89	
1987-012E		18407	JAPAN	05 FEB	11 AUG 89	
1987-012F		18408	JAPAN	05 FEB	22 NOV 88	
1987-012G		18409	JAPAN	05 FEB	11 FEB 89	
1987-012H		18523	JAPAN	05 FEB	03 FEB 88	
1987-012J		18682	JAPAN	05 FEB	09 FEB 89	
1987-012K		18927	JAPAN	05 FEB	13 APR 93	
1987-013A	SOYUZ TM-2	17482	USSR	05 FEB	30 JUL 87	
1987-013B		17483	USSR	05 FEB	08 FEB 87	
1987-013C		18242	USSR	05 FEB	16 JAN 88	
1987-014A	COSMOS 1819	17484	USSR	07 FEB	18 FEB 87	
1987-014B		17485	USSR	07 FEB	10 FEB 87	
1987-014C		17486	USSR	07 FEB	07 FEB 87	
1987-014D		17487	USSR	07 FEB	08 FEB 87	
1987-014E		17529	USSR	07 FEB	03 MAR 87	
1987-014F		17530	USSR	07 FEB	24 MAR 87	
1987-014G		17531	USSR	07 FEB	23 FEB 87	
1987-014H		17532	USSR	07 FEB	26 FEB 87	
1987-016A	COSMOS 1820	17523	USSR	14 FEB	06 MAR 87	
1987-016B		17524	USSR	14 FEB	22 FEB 87	
1987-019A	COSMOS 1822	17533	USSR	19 FEB	05 MAR 87	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-019B		17534	USSR	19 FEB	01 MAR 87	
1987-019C		17568	USSR	19 FEB	11 MAR 87	
1987-019D		17569	USSR	19 FEB	17 MAR 87	
1987-019E		17570	USSR	19 FEB	10 APR 87	
1987-019F		17571	USSR	19 FEB	08 MAR 87	
1987-019G		17572	USSR	19 FEB	11 MAR 87	
1987-019H		17573	USSR	19 FEB	06 MAR 87	
1987-020K		18732	USSR	20 FEB	02 MAR 91	
1987-020M		18734	USSR	20 FEB	21 NOV 92	
1987-020N		18735	USSR	20 FEB	29 JUL 89	
1987-020P		18736	USSR	20 FEB	05 NOV 93	
1987-020S		18739	USSR	20 FEB	18 FEB 91	
1987-020T		18740	USSR	20 FEB	27 FEB 92	
1987-020U		18741	USSR	20 FEB	22 MAR 89	
1987-020W		18743	USSR	20 FEB	11 JAN 89	
1987-020AB		18750	USSR	20 FEB	28 AUG 90	
1987-020AV		18968	USSR	20 FEB	23 SEP 88	
1987-020AX		18970	USSR	20 FEB	18 MAY 90	
1987-020AY		18994	USSR	20 FEB	21 MAR 89	
1987-020AZ		18995	USSR	20 FEB	24 FEB 90	
1987-020BC		19104	USSR	20 FEB	04 JAN 89	
1987-020BF		19146	USSR	20 FEB	21 JAN 89	
1987-020BG		19147	USSR	20 FEB	23 SEP 93	
1987-020BH		19149	USSR	20 FEB	17 FEB 91	
1987-020BJ		19151	USSR	20 FEB	29 MAR 90	
1987-020BK		19152	USSR	20 FEB	01 DEC 88	
1987-020BL		19153	USSR	20 FEB	13 OCT 88	
1987-020BM		19155	USSR	20 FEB	10 MAR 89	
1987-020BN		19159	USSR	20 FEB	27 DEC 88	
1987-020BP		19179	USSR	20 FEB	14 JUN 90	
1987-020BQ		19180	USSR	20 FEB	01 FEB 91	
1987-020BR		19184	USSR	20 FEB	23 APR 89	
1987-020BS		19186	USSR	20 FEB	26 JUN 89	
1987-020BT		19188	USSR	20 FEB	25 DEC 88	
1987-020BU		19247	USSR	20 FEB	14 AUG 88	
1987-020BV		19249	USSR	20 FEB	20 MAY 90	
1987-020BX		19392	USSR	20 FEB	23 FEB 90	
1987-020BY		19394	USSR	20 FEB	18 APR 92	
1987-020BZ		19437	USSR	20 FEB	23 FEB 90	
1987-020CB		19452	USSR	20 FEB	04 NOV 88	
1987-020CC		19456	USSR	20 FEB	28 OCT 88	
1987-020CD		19562	USSR	20 FEB	25 MAY 90	
1987-020CG		19644	USSR	20 FEB	01 JAN 89	
1987-020CH		19645	USSR	20 FEB	06 AUG 89	
1987-020CI		19815	USSR	20 FEB	21 DEC 89	
1987-020CJ		19833	USSR	20 FEB	26 OCT 89	
1987-020CK		19836	USSR	20 FEB	11 JUL 89	
1987-020CL		19837	USSR	20 FEB	01 APR 89	
1987-020CM		19839	USSR	20 FEB	24 NOV 89	
1987-020CN		19840	USSR	20 FEB	23 JUL 89	
1987-020CP		19854	USSR	20 FEB	26 SEP 89	
1987-020CQ		19861	USSR	20 FEB		
1987-020CR						



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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-020CS		19888	USSR	20 FEB	02 AUG 89	
1987-020CT		19890	USSR	20 FEB	13 OCT 89	
1987-020CU		19955	USSR	20 FEB	17 JUL 89	
1987-020CV		19957	USSR	20 FEB	21 DEC 89	
1987-020CW		19982	USSR	20 FEB	28 MAR 91	
1987-020CX		20003	USSR	20 FEB	28 JAN 90	
1987-020CY		20004	USSR	20 FEB	10 JUL 90	
1987-020CZ		20019	USSR	20 FEB	08 SEP 89	
1987-020DA		20020	USSR	20 FEB	17 JAN 91	
1987-020DB		20092	USSR	20 FEB	13 JUN 90	
1987-020DC		20126	USSR	20 FEB	18 AUG 91	
1987-020DD		20130	USSR	20 FEB	13 AUG 90	
1987-020DE		20154	USSR	20 FEB	16 MAY 90	
1987-020DF		20155	USSR	20 FEB	13 OCT 89	
1987-020DG		20198	USSR	20 FEB	30 MAR 91	
1987-020DH		20199	USSR	20 FEB	25 AUG 90	
1987-020DJ		20201	USSR	20 FEB	17 JUL 90	
1987-020DK		20225	USSR	20 FEB	12 OCT 91	
1987-020DL		20226	USSR	20 FEB	17 FEB 91	
1987-020DN		20228	USSR	20 FEB	01 NOV 89	
1987-020DQ		20454	USSR	20 FEB	21 FEB 90	
1987-021A	COSMOS 1824	17559	USSR	26 FEB	22 APR 87	
1987-021B		17560	USSR	26 FEB	04 MAR 87	
1987-023A	PROGRESS 28	17564	USSR	03 MAR	28 MAR 87	
1987-023B		17565	USSR	03 MAR	06 MAR 87	
1987-025A	COSMOS 1826	17577	USSR	11 MAR	25 MAR 87	
1987-025B		17578	USSR	11 MAR	25 MAR 87	
1987-025C		17579	USSR	11 MAR	17 MAR 87	
1987-025D		17580	USSR	11 MAR	16 MAR 87	
1987-025E		17581	USSR	11 MAR	17 MAR 87	
1987-025F		17785	USSR	11 MAR	30 JUN 87	
1987-025G		17786	USSR	11 MAR	30 AUG 88	
1987-025H		17787	USSR	11 MAR	08 APR 87	
1987-025J		17788	USSR	11 MAR	16 SEP 87	
1987-025K		17789	USSR	11 MAR	21 NOV 87	
1987-025L		17790	USSR	11 MAR	03 MAY 87	
1987-025M		17791	USSR	11 MAR	18 APR 87	
1987-028B		17612	USSR	19 MAR	22 MAR 87	
1987-028C		17613	USSR	19 MAR	19 MAR 87	
1987-028E		17709	USSR	19 MAR	30 NOV 91	
1987-028F		17710	USSR	19 MAR	30 SEP 87	
1987-029B		17707	US	20 MAR	23 APR 87	
1987-029C		17708	INDNSA	20 MAR	18 DEC 89	
1987-030B		17846	USSR	31 MAR	04 APR 87	
1987-030C		17851	USSR	31 MAR	25 AUG 88	
1987-031A	COSMOS 1834	17847	USSR	08 APR	14 OCT 88	
1987-031B		17848	USSR	08 APR	08 APR 87	
1987-032A	COSMOS 1835	17849	USSR	09 APR	04 JUN 87	
1987-032B		17850	USSR	09 APR	14 APR 87	
1987-033A	COSMOS 1836	17876	USSR	16 APR	02 DEC 87	
1987-033B		17877	USSR	16 APR	20 APR 87	
1987-033C		18028	USSR	16 APR	20 JUN 87	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		CATALOG NUMBER		SOURCE		LAUNCH		DECAY		NOTES	
NAME													
1987-033D		18587		USSR		16 APR		03 DEC 87					
1987-033E		18588		USSR		16 APR		05 DEC 87					
PROGRESS 29		17878		USSR		21 APR		11 MAY 87					
1987-034B		17879		USSR		21 APR		24 APR 87					
COSMOS 1837		17880		USSR		22 APR		28 APR 87					
1987-035B		17881		USSR		22 APR		24 APR 87					
1987-035C		17914		USSR		22 APR		18 MAY 87					
1987-035D		17915		USSR		22 APR		30 APR 87					
1987-035E		17916		USSR		22 APR		02 MAY 87					
1987-035F		17917		USSR		22 APR		08 MAY 87					
1987-035G		17918		USSR		22 APR		02 MAY 87					
COSMOS 1838		17902		USSR		24 APR		15 MAY 91					
1987-036A		17903		USSR		24 APR		08 MAY 91					
COSMOS 1839		17904		USSR		24 APR		14 SEP 91					
1987-036C		17905		USSR		24 APR		25 APR 87					
1987-036D		17906		USSR		24 APR		27 APR 87					
1987-036E		17909		USSR		24 APR		12 APR 87					
1987-036F		17909		USSR		24 APR		12 APR 91					
1987-036G		17910		USSR		24 APR		22 NOV 91					
1987-036H		17913		USSR		24 APR		28 OCT 87					
1987-036J		17962		USSR		24 APR		08 MAY 87					
COSMOS 1841		17907		USSR		24 APR		22 MAY 87					
1987-037A		17908		USSR		24 APR		09 MAY 87					
1987-037B		17964		USSR		24 APR		04 JUL 87					
1987-037C		17965		USSR		24 APR		21 MAY 87					
1987-037D		17966		USSR		24 APR		24 MAY 87					
1987-037E		17967		USSR		24 APR		11 JUN 87					
1987-037F		17968		USSR		24 APR		19 MAY 87					
1987-037G		17940		USSR		05 MAY		13 MAY 87					
COSMOS 1843		17941		USSR		05 MAY		07 MAY 87					
1987-039A		17963		USSR		05 MAY		28 AUG 87					
1987-039B		18001		USSR		05 MAY		11 JUL 88					
1987-039C		18002		USSR		05 MAY		06 NOV 87					
1987-039D		18003		USSR		05 MAY		22 NOV 87					
1987-039E		18002		USSR		05 MAY		14 MAY 87					
1987-039F		17970		USSR		11 MAY		12 MAY 87					
1987-040B		17971		USSR		11 MAY		06 APR 93					
1987-040C		18687		USSR		13 MAY		27 MAY 87					
1987-041G		17975		USSR		13 MAY		01 JUN 87					
COSMOS 1845		17976		USSR		13 MAY		25 OCT 87					
1987-042A		18013		USSR		13 MAY		16 AUG 88					
1987-042B		18014		USSR		13 MAY		24 NOV 87					
1987-042C		18015		USSR		13 MAY		22 JUN 87					
1987-042D		18016		USSR		13 MAY		04 DEC 87					
1987-042E		18019		USSR		13 MAY		14 SEP 87					
1987-042F		18020		USSR		13 MAY		20 SEP 87					
1987-042G		18023		USSR		13 MAY		19 JUL 87					
1987-042H		17999		USSR		19 MAY		22 MAY 87					
1987-042J		18000		USSR		19 MAY		04 JUN 87					
PROGRESS 30		18004		USSR		21 MAY		26 MAY 87					
1987-044A		18005		USSR		21 MAY		22 MAY 87					
1987-045A		18006		USSR		21 MAY		11 JUN 87					
1987-045B		18006		USSR		21 MAY							
1987-045C		18087		USSR		21 MAY							
1987-045D		18087		USSR		21 MAY							

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-045E		18088	USSR	21 MAY	21 JUL 87	
1987-045F		18089	USSR	21 MAY	12 SEP 87	
1987-045G		18090	USSR	21 MAY	14 JUN 87	
1987-045H		18091	USSR	21 MAY	04 AUG 87	
1987-045J		18092	USSR	21 MAY	15 JUL 87	
1987-045K		18093	USSR	21 MAY	19 JUL 87	
1987-045L		18094	USSR	21 MAY	05 JAN 88	
1987-046A	COSMOS 1847	18011	USSR	26 MAY	22 JUL 87	
1987-046B		18012	USSR	26 MAY	30 MAY 87	
1987-047A		18017	USSR	28 MAY	11 JUN 87	
1987-047B	COSMOS 1848	18018	USSR	28 MAY	12 JUN 87	
1987-047C		18021	USSR	28 MAY	30 MAY 87	
1987-047D		18097	USSR	28 MAY	25 JUN 87	
1987-047E		18098	USSR	28 MAY	05 NOV 87	
1987-047F		18099	USSR	28 MAY	13 AUG 87	
1987-047G		18100	USSR	28 MAY	18 NOV 87	
1987-047H		18101	USSR	28 MAY	19 SEP 87	
1987-047J		18102	USSR	28 MAY	29 SEP 88	
1987-047K		18107	USSR	28 MAY	18 JUL 87	
1987-047L		18108	USSR	28 MAY	19 SEP 87	
1987-047M		18109	USSR	28 MAY	20 SEP 87	
1987-047N		18110	USSR	28 MAY	27 JUN 87	
1987-047P		18124	USSR	28 MAY	02 AUG 87	
1987-047Q		18125	USSR	28 MAY	17 JUL 87	
1987-047R		18126	USSR	28 MAY	10 JUL 87	
1987-047S		18189	USSR	28 MAY	12 JUL 87	
1987-047T		18190	USSR	28 MAY	12 JUL 87	
1987-048B		18084	USSR	04 JUN	30 JUN 87	
1987-048C		18085	USSR	04 JUN	15 AUG 87	
1987-050B		18104	USSR	12 JUN	15 AUG 87	
1987-050C		18105	USSR	12 JUN	22 JUL 87	
1987-052B		18239	USSR	18 JUN	02 AUG 87	
1987-052C		18240	USSR	18 JUN	16 SEP 87	
1987-056A	COSMOS 1863	18155	USSR	04 JUL	18 JUL 87	
1987-056B		18156	USSR	04 JUL	18 JUL 87	
1987-056D		18158	USSR	04 JUL	07 JUL 87	
1987-056E		18216	USSR	04 JUL	20 AUG 87	
1987-056F		18217	USSR	04 JUL	13 NOV 87	
1987-056G		18218	USSR	04 JUL	23 JAN 88	
1987-056H		18219	USSR	04 JUL	08 DCT 87	
1987-056J		18220	USSR	04 JUL	09 AUG 87	
1987-056K		18221	USSR	04 JUL	23 AUG 87	
1987-056L		18224	USSR	04 JUL	07 DCT 88	
1987-057C		18157	USSR	06 JUL	08 JUL 87	
1987-058A	COSMOS 1865	18162	USSR	08 JUL	14 AUG 87	
1987-058B		18163	USSR	08 JUL	16 JUL 87	
1987-059A	COSMOS 1866	18184	USSR	09 JUL	06 NOV 87	
1987-059B		18185	USSR	09 JUL	15 JUL 87	
1987-059C		18186	USSR	09 JUL	10 JUL 87	
1987-059D		18285	USSR	09 JUL	19 AUG 87	
1987-059E		18286	USSR	09 JUL	28 AUG 87	
1987-059F		18287	USSR	09 JUL	18 AUG 87	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-059G			18288	USSR	09 JUL	17 SEP 87	
1987-059H			18308	USSR	09 JUL	20 SEP 87	
1987-059J			18309	USSR	09 JUL	16 OCT 87	
1987-059K			18310	USSR	09 JUL	12 OCT 87	
1987-059L			18311	USSR	09 JUL	10 OCT 87	
1987-060B			18188	USSR	10 JUL	11 JUL 87	
1987-060C			18191	USSR	10 JUL	11 FEB 90	
1987-060D			18524	USSR	10 JUL	14 MAY 90	
1987-061A	COSMOS 1868		18192	USSR	14 JUL	02 MAR 89	
1987-061B			18193	USSR	14 JUL	30 AUG 88	
1987-063A	SOYUZ TM-3		18222	USSR	22 JUL	29 DEC 87	
1987-063B			18223	USSR	22 JUL	24 JUL 87	
1987-063C			18723	USSR	22 JUL	17 JUN 88	
1987-064A	COSMOS 1870		18225	USSR	25 JUL	29 JUL 89	
1987-064B			18226	USSR	25 JUL	27 JUL 87	
1987-064C			18227	USSR	25 JUL	26 JUL 87	
1987-065A	COSMOS 1871		18259	USSR	01 AUG	10 AUG 87	
1987-065B			18260	USSR	03 AUG	03 AUG 87	
1987-066A	PROGRESS 31		18283	USSR	03 AUG	23 SEP 87	
1987-066B			18284	USSR	03 AUG	07 AUG 87	
1987-067A	PRC 20		18306	PRC	05 AUG	23 AUG 87	
1987-067B			18307	PRC	05 AUG	21 AUG 87	
1987-069A	COSMOS 1872		18314	USSR	19 AUG	30 AUG 87	
1987-069B			18315	USSR	19 AUG	26 AUG 87	
1987-069C			18321	USSR	19 AUG	10 SEP 87	
1987-069D			18322	USSR	19 AUG	01 SEP 87	
1987-069E			18323	USSR	19 AUG	31 AUG 87	
1987-069F			18324	USSR	19 AUG	07 SEP 87	
1987-069G			18325	USSR	19 AUG	01 SEP 87	
1987-070B			18317	JAPAN	27 AUG	28 AUG 87	
1987-070C			18320	JAPAN	27 AUG	12 JUN 88	
1987-071A	COSMOS 1873		18318	USSR	28 AUG	14 SEP 87	
1987-071B			18319	USSR	28 AUG	02 SEP 87	
1987-072A	COSMOS 1874		18326	USSR	03 SEP	17 SEP 87	
1987-072B			18327	USSR	03 SEP	11 SEP 87	
1987-072C			18368	USSR	03 SEP	12 OCT 87	
1987-072D			18369	USSR	03 SEP	19 SEP 87	
1987-072E			18370	USSR	03 SEP	20 SEP 87	
1987-072F			18371	USSR	03 SEP	25 SEP 87	
1987-073B			18329	USSR	04 SEP	06 SEP 87	
1987-073C			18330	USSR	04 SEP	04 SEP 87	
1987-073F			18333	USSR	04 SEP	05 JUL 88	
1987-075A	PRC 21		18341	PRC	09 SEP	04 OCT 87	
1987-075B			18342	PRC	09 SEP	24 SEP 87	
1987-075C			18372	PRC	09 SEP	23 SEP 87	
1987-075D			18373	PRC	09 SEP	20 SEP 87	
1987-076A	COSMOS 1881		18343	USSR	11 SEP	30 MAR 88	
1987-076B			18344	USSR	11 SEP	15 SEP 87	
1987-076C			19021	USSR	11 SEP	01 APR 88	
1987-076D			19035	USSR	11 SEP	02 APR 88	
1987-077A	COSMOS 1882		18348	USSR	15 SEP	06 OCT 87	
1987-077B			18349	USSR	15 SEP	17 SEP 87	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-077C		18389	USSR	15 SEP	17 OCT 87	
1987-077D		18390	USSR	15 SEP	12 OCT 87	
1987-077E		18391	USSR	15 SEP	10 OCT 87	
1987-077F		18392	USSR	15 SEP	05 NOV 87	
1987-077G		18393	USSR	15 SEP	11 OCT 87	
1987-078C		18352	ESA	16 SEP	21 JUN 91	
1987-078D		18353	ESA	16 SEP	08 OCT 88	
1987-079D		18358	USSR	16 SEP	16 SEP 87	
1987-080D		18364	US	16 SEP	02 FEB 89	
1987-081A	COSMOS 1886	18366	USSR	17 SEP	02 NOV 87	
1987-081B		18367	USSR	17 SEP	22 SEP 87	
1987-081C		18449	USSR	17 SEP	02 NOV 87	
1987-082A	PROGRESS 32	18376	USSR	23 SEP	19 NOV 87	
1987-082B		18377	USSR	23 SEP	26 SEP 87	
1987-083A		18380	USSR	29 SEP	12 OCT 87	
1987-083B	COSMOS 1887	18381	USSR	29 SEP	19 OCT 87	
1987-083C		18398	USSR	29 SEP	08 NOV 87	
1987-083D		18399	USSR	29 SEP	05 NOV 87	
1987-083E		18400	USSR	29 SEP	21 OCT 87	
1987-083F		18401	USSR	29 SEP	28 OCT 87	
1987-084B		18385	USSR	01 OCT	04 OCT 87	
1987-084C		18386	USSR	01 OCT	02 OCT 87	
1987-084E		18388	USSR	01 OCT	16 JUL 91	
1987-084F		18420	USSR	01 OCT	06 JUN 88	
1987-085A	COSMOS 1889	18394	USSR	09 OCT	23 OCT 87	
1987-085B		18395	USSR	09 OCT	25 OCT 87	
1987-085C		18436	USSR	09 OCT	28 FEB 88	
1987-085D		18437	USSR	09 OCT	31 JAN 88	
1987-085E		18438	USSR	09 OCT	30 NOV 87	
1987-085F		18439	USSR	09 OCT	23 DEC 87	
1987-085G		18440	USSR	09 OCT	10 OCT 88	
1987-085H		18567	USSR	09 OCT	27 NOV 87	
1987-086A	COSMOS 1890	18396	USSR	10 OCT	26 DEC 88	
1987-086B		18397	USSR	10 OCT	11 OCT 87	
1987-089A	COSMOS 1893	18432	USSR	22 OCT	16 DEC 87	
1987-089B		18433	USSR	22 OCT	26 OCT 87	
1987-090B		18442	US	26 OCT	27 OCT 87	
1987-091B		18444	USSR	28 OCT	31 OCT 87	
1987-091C		18445	USSR	28 OCT	29 OCT 87	
1987-091E		18447	USSR	28 OCT	09 MAR 88	
1987-092A	COSMOS 1895	18491	USSR	11 NOV	26 NOV 87	
1987-092B		18492	USSR	11 NOV	25 NOV 87	
1987-092C		18572	USSR	11 NOV	28 NOV 87	
1987-092D		18573	USSR	11 NOV	27 NOV 87	
1987-092E		18574	USSR	11 NOV	04 DEC 87	
1987-092F		18581	USSR	11 NOV	29 NOV 87	
1987-092G		18582	USSR	11 NOV	27 NOV 87	
1987-093A	COSMOS 1896	18535	USSR	14 NOV	25 DEC 87	
1987-093B		18536	USSR	14 NOV	20 NOV 87	
1987-093C		18537	USSR	14 NOV	15 NOV 87	
1987-094A	PROGRESS 33	18568	USSR	20 NOV	19 DEC 87	
1987-094B		18569	USSR	20 NOV	23 NOV 87	

INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-096B			18576	USSR	26 NOV	28 NOV 87	
1987-096C			18577	USSR	26 NOV	27 NOV 87	
1987-096E			18579	USSR	26 NOV	12 JUL 89	
1987-096F			18580	USSR	26 NOV	18 AUG 88	
1987-099A	COSMOS 1899		18625	USSR	07 DEC	21 DEC 87	
1987-099B			18626	USSR	07 DEC	13 DEC 87	
1987-099C			18627	USSR	07 DEC	08 DEC 87	
1987-099D			18705	USSR	07 DEC	15 JAN 88	
1987-099E			18706	USSR	07 DEC	23 DEC 87	
1987-099F			18707	USSR	07 DEC	22 DEC 87	
1987-099G			18708	USSR	07 DEC	27 DEC 87	
1987-100B			18632	USSR	10 DEC	13 DEC 87	
1987-100C			18633	USSR	10 DEC	11 DEC 87	
1987-100E			18635	USSR	10 DEC	07 MAY 91	
1987-100F			18636	USSR	12 DEC	05 JUL 90	
1987-101B			19553	USSR	12 DEC	01 OCT 88	
1987-101C			19589	USSR	12 DEC	03 NOV 88	
1987-102A	COSMOS 1901		18666	USSR	14 DEC	03 FEB 88	
1987-102B			18667	USSR	14 DEC	20 DEC 87	
1987-103A	COSMOS 1902		18668	USSR	15 DEC	30 DEC 88	
1987-103B			18669	USSR	15 DEC	21 SEP 88	
1987-104A	SOYUZ TM-4		18699	USSR	21 DEC	17 JUN 88	
1987-104B			18700	USSR	21 DEC	23 DEC 87	
1987-104C			19225	USSR	21 DEC	05 NOV 88	
1987-104D			19251	USSR	21 DEC	05 JUL 88	
1987-104E			19253	USSR	21 DEC	19 JUN 88	
1987-104F			19254	USSR	21 DEC	09 FEB 88	
1987-104G			19255	USSR	21 DEC	27 JUN 88	
1987-105B			18702	USSR	21 DEC	19 JUN 88	
1987-105C			18703	USSR	21 DEC	12 JAN 88	
1987-105E			18977	USSR	21 DEC	27 MAR 88	
1987-107A	COSMOS 1905		18711	USSR	25 DEC	08 JAN 88	
1987-107B			18712	USSR	25 DEC	01 JAN 88	
1987-107C			18759	USSR	25 DEC	12 JAN 88	
1987-107D			18760	USSR	25 DEC	03 FEB 88	
1987-107E			18761	USSR	25 DEC	15 JAN 88	
1987-107F			18762	USSR	25 DEC	13 JAN 88	
1987-107G			18763	USSR	25 DEC	10 JAN 88	
1987-108A	COSMOS 1906		18713	USSR	26 DEC	13 MAR 88	
1987-108B			18714	USSR	26 DEC	29 DEC 87	
1987-108C			18825	USSR	26 DEC	19 FEB 88	
1987-108D			18826	USSR	26 DEC	28 FEB 88	
1987-108E			18827	USSR	26 DEC	23 FEB 88	
1987-108F			18828	USSR	26 DEC	01 APR 88	
1987-108G			18829	USSR	26 DEC	02 MAR 88	
1987-108H			18830	USSR	26 DEC	11 FEB 88	
1987-108J			18831	USSR	26 DEC	13 FEB 88	
1987-108K			18832	USSR	26 DEC	05 MAR 88	
1987-108L			18833	USSR	26 DEC	07 APR 88	
1987-108M			18834	USSR	26 DEC	26 MAY 88	
1987-108N			18835	USSR	26 DEC	19 MAR 88	
1987-108P			18836	USSR	26 DEC	27 FEB 88	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987-1080		18837	USSR	26 DEC	01 JUN 88	
1987-108R		18838	USSR	26 DEC	09 FEB 88	
1987-108S		18839	USSR	26 DEC	20 MAR 88	
1987-108T		18840	USSR	26 DEC	02 MAR 88	
1987-108U		18841	USSR	26 DEC	13 FEB 88	
1987-108V		18842	USSR	26 DEC	19 FEB 88	
1987-108W		18843	USSR	26 DEC	22 FEB 88	
1987-108X		18844	USSR	26 DEC	20 MAR 88	
1987-108Y		18862	USSR	26 DEC	13 MAR 88	
1987-108Z		18863	USSR	26 DEC	28 FEB 88	
1987-108AA		18888	USSR	26 DEC	07 MAR 88	
1987-108AB		18892	USSR	26 DEC	02 APR 88	
1987-108AC		18893	USSR	26 DEC	06 APR 88	
1987-108AD		18894	USSR	26 DEC	25 MAR 88	
1987-108AE		18895	USSR	26 DEC	12 MAR 88	
1987-108AF		18896	USSR	26 DEC	28 MAY 88	
1987-108AG		18897	USSR	26 DEC	11 MAR 88	
1987-108AH		18898	USSR	26 DEC	30 MAR 88	
1987-108AJ		18899	USSR	26 DEC	06 APR 88	
1987-108AK		18900	USSR	26 DEC	12 MAR 88	
1987-108AL		18950	USSR	26 DEC	20 MAR 88	
1987-108AM		18972	USSR	26 DEC	23 MAY 88	
1987-108AN		18973	USSR	26 DEC	20 MAR 88	
1987-108AP		18974	USSR	26 DEC	12 APR 88	
1987-108B		18716	USSR	27 DEC	30 DEC 87	
1987-109C		18717	USSR	27 DEC	28 DEC 87	
1987-109F		18722	USSR	27 DEC	26 OCT 88	
1987-110A		18720	USSR	29 DEC	12 JAN 88	
1987-110B		18721	USSR	29 DEC	01 JAN 88	
1987-110C		18724	USSR	29 DEC	26 FEB 88	
1987-110D		18768	USSR	29 DEC	08 MAY 88	
1987-110E		18769	USSR	29 DEC	06 DEC 88	
1987-110F		18770	USSR	29 DEC	09 APR 88	
1987-110G		18771	USSR	29 DEC	30 MAR 88	
1987-110H		18772	USSR	29 DEC	28 FEB 88	
1987-110J		18808	USSR	29 DEC		
1988 LAUNCHES						
1984-012G		19464	USSR	19 FEB	02 JAN 89	
1986-017L		19386	USSR	07 JUN	06 NOV 88	
1988-003A	PROGRESS 34	18795	USSR	20 JAN	04 MAR 88	
1988-003B		18796	USSR	20 JAN	23 JAN 88	
1988-004A	COSMOS 1915	18809	USSR	26 JAN	09 FEB 88	
1988-004B		18810	USSR	26 JAN	07 FEB 88	
1988-004C		18850	USSR	26 JAN	10 APR 88	
1988-004D		18851	USSR	26 JAN	17 FEB 88	
1988-004E		18852	USSR	26 JAN	21 FEB 88	
1988-004F		18853	USSR	26 JAN	23 FEB 88	
1988-006B		18845	US	03 FEB	29 OCT 92	
1988-006C		18846	US	03 FEB	12 MAR 92	
1988-006E		18956	US	03 FEB	02 FEB 89	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECEASED OBJECTS						
1988-007A	COSMOS 1916	18823	USSR	03 FEB	29 FEB 88	
1988-007B		18824	USSR	03 FEB	09 FEB 88	
1988-008A		18847	US	08 FEB	01 MAR 88	
1988-008B		18848	US	08 FEB	02 APR 88	
1988-008C		18849	US	08 FEB	05 MAR 88	
1988-008D		18854	US	08 FEB	13 FEB 88	
1988-009A	COSMOS 1917-19	18857	USSR	17 FEB	17 FEB 88	
1988-009B		18858	USSR	17 FEB	19 FEB 88	
1988-009C		18859	USSR	17 FEB	20 FEB 88	
1988-010A	COSMOS 1920	18860	USSR	18 FEB	09 MAR 88	
1988-010B		18861	USSR	18 FEB	20 FEB 88	
1988-010C		18924	USSR	18 FEB	11 MAR 88	
1988-010D		18925	USSR	18 FEB	10 MAR 88	
1988-010E		18926	USSR	18 FEB	06 APR 88	
1988-010F		18930	USSR	18 FEB	08 APR 88	
1988-010G		18933	USSR	18 FEB	02 JUL 88	
1988-010H		18934	USSR	18 FEB	28 MAR 88	
1988-010J		18935	USSR	18 FEB	26 MAR 88	
1988-011A	COSMOS 1921	18875	USSR	19 FEB	04 MAR 88	
1988-011B		18876	USSR	19 FEB	21 FEB 88	
1988-011C		18880	USSR	19 FEB	04 MAR 88	
1988-011D		18916	USSR	19 FEB	29 MAY 88	
1988-011E		18917	USSR	19 FEB	22 JUN 88	
1988-011F		18918	USSR	19 FEB	24 NOV 88	
1988-011G		18919	USSR	19 FEB	15 APR 88	
1988-011H		18920	USSR	19 FEB	05 JUN 88	
1988-011J		18921	USSR	19 FEB	19 APR 88	
1988-012B		18878	JAPAN	19 FEB	26 FEB 88	
1988-013B		18882	USSR	26 FEB	05 APR 88	
1988-013D		18884	USSR	26 FEB	25 MAR 88	
1988-013E		19004	USSR	26 FEB	07 APR 88	
1988-014B		18923	PRC	07 MAR	20 JUL 89	
1988-015A	COSMOS 1923	18931	USSR	10 MAR	22 MAR 88	
1988-015B		18932	USSR	10 MAR	16 MAR 88	
1988-015C		18936	USSR	10 MAR	11 MAR 88	
1988-015D		18987	USSR	10 MAR	01 APR 88	
1988-015E		18988	USSR	10 MAR	24 MAR 88	
1988-015F		18989	USSR	10 MAR	23 MAR 88	
1988-015G		18990	USSR	10 MAR	25 MAR 88	
1988-015H		18991	USSR	10 MAR	27 MAR 88	
1988-017B		18947	USSR	11 MAR	07 APR 88	
1988-017C		18948	USSR	11 MAR	09 APR 88	
1988-018D		18954	ESA	11 MAR	01 FEB 89	
1988-019B		19160	USSR	14 MAR	29 JUN 88	
1988-019C		19161	USSR	14 MAR	24 MAY 88	
1988-019E		19517	USSR	14 MAR	03 NOV 88	
1988-022B		18981	USSR	17 MAR	28 APR 88	
1988-022C		18982	USSR	17 MAR	10 APR 88	
1988-022E		19187	USSR	17 MAR	06 JUL 88	
1988-024A	PROGRESS 35	18992	USSR	23 MAR	05 MAY 88	
1988-024B		18993	USSR	23 MAR	26 MAR 88	
1988-024C		19089	USSR	23 MAR	05 MAY 88	



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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988-025A	COSMOS 1935	19011	USSR	24 MAR	08 APR 88	
1988-025B		19012	USSR	24 MAR	27 MAR 88	
1988-025C		19040	USSR	24 MAR	08 APR 88	
1988-026A	SM-D	19013	ITALY	25 MAR	06 DEC 88	
1988-026B		19014	US	25 MAR	16 JUN 88	
1988-027A	COSMOS 1936	19015	USSR	30 MAR	18 MAY 88	
1988-027B		19016	USSR	30 MAR	02 APR 88	
1988-027C		19022	USSR	30 MAR	31 MAR 88	
1988-027D		19129	USSR	30 MAR	18 MAY 88	
1988-027E		19130	USSR	30 MAR	18 MAY 88	
1988-028B		19018	USSR	31 MAR	02 APR 88	
1988-028C		19019	USSR	31 MAR	31 MAR 88	
1988-030A	COSMOS 1938	19041	USSR	11 APR	25 APR 88	
1988-030B		19042	USSR	11 APR	16 APR 88	
1988-030C		19065	USSR	11 APR	29 APR 88	
1988-030D		19066	USSR	11 APR	29 APR 88	
1988-030E		19067	USSR	11 APR	07 MAY 88	
1988-030F		19068	USSR	11 APR	29 APR 88	
1988-030G		19069	USSR	11 APR	30 APR 88	
1988-031A	FOTON 1	19043	USSR	14 APR	28 APR 88	
1988-031B		19044	USSR	14 APR	29 APR 88	
1988-031C		19084	USSR	14 APR	29 MAY 88	
1988-031D		19085	USSR	14 APR	05 MAY 88	
1988-031E		19086	USSR	14 APR	15 MAY 88	
1988-031F		19088	USSR	14 APR	05 MAY 88	
1988-034B		19074	USSR	26 APR	28 APR 88	
1988-034C		19075	USSR	26 APR	26 APR 88	
1988-035A	COSMOS 1941	19079	USSR	27 APR	11 MAY 88	
1988-035B		19080	USSR	27 APR	02 MAY 88	
1988-035C		19081	USSR	27 APR	27 APR 88	
1988-035D		19087	USSR	27 APR	27 APR 88	
1988-035E		19096	USSR	27 APR	03 MAY 88	
1988-035F		19097	USSR	27 APR	22 MAY 88	
1988-035G		19098	USSR	27 APR	14 MAY 88	
1988-035H		19099	USSR	27 APR	13 MAY 88	
1988-035J		19100	USSR	27 APR	16 MAY 88	
1988-036B		19091	USSR	06 MAY	08 MAY 88	
1988-036C		19092	USSR	06 MAY	06 MAY 88	
1988-036D		19093	USSR	06 MAY	06 MAY 88	
1988-036F		19095	USSR	06 MAY	04 MAR 90	
1988-037A	COSMOS 1942	19115	USSR	12 MAY	16 JUL 89	
1988-037B		19116	USSR	12 MAY	04 JUL 88	
1988-037C		19273	USSR	12 MAY	16 MAY 88	
1988-038A	PROGRESS 36	19117	USSR	13 MAY	05 JUL 88	
1988-038B		19118	USSR	13 MAY	05 JUL 88	
1988-041A	COSMOS 1944	19123	USSR	18 MAY	15 MAY 88	
1988-041B		19124	USSR	18 MAY	23 JUN 88	
1988-042A	COSMOS 1945	19131	USSR	18 MAY	24 MAY 88	
1988-042B		19132	USSR	19 MAY	31 MAY 88	
1988-042C		19199	USSR	19 MAY	01 JUN 88	
1988-042D		19200	USSR	19 MAY	03 JUN 88	
1988-042E		19201	USSR	19 MAY	04 JUN 88	

INTER- NATIONAL DESIGNATION		NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988-042F				19202	USSR	19 MAY	01 JUN 88	
1988-042G				19203	USSR	19 MAY	02 JUN 88	
1988-043D				19166	USSR	21 MAY	22 MAY 88	
1988-043E				19167	USSR	21 MAY	21 MAY 88	
1988-044C				19191	USSR	26 MAY	07 JUL 88	
1988-044D				19192	USSR	26 MAY	28 JUN 88	
1988-044E				19239	USSR	26 MAY	13 JUL 88	
1988-044F				19434	USSR	26 MAY	23 SEP 88	
1988-044G				19457	USSR	26 MAY	09 OCT 88	
1988-044H				19481	USSR	26 MAY	13 OCT 88	
1988-045A	COSMOS	1949		19193	USSR	28 MAY	23 APR 90	
1988-045B				19194	USSR	28 MAY	28 MAY 88	
1988-047A	COSMOS	1951		19197	USSR	31 MAY	14 JUN 88	
1988-047B				19198	USSR	31 MAY	03 JUN 88	
1988-047C				19212	USSR	31 MAY	17 JUL 88	
1988-047D				19213	USSR	31 MAY	19 JUN 88	
1988-047E				19214	USSR	31 MAY	17 JUN 88	
1988-048A	SOYUZ TM-5			19204	USSR	07 JUN	07 SEP 88	
1988-048B				19205	USSR	07 JUN	09 JUN 88	
1988-049A	COSMOS	1952		19206	USSR	11 JUN	25 JUN 88	
1988-049B				19207	USSR	11 JUN	17 JUN 88	
1988-049C				19208	USSR	11 JUN	12 JUN 88	
1988-049D				19209	USSR	11 JUN	20 JUL 88	
1988-049E				19265	USSR	11 JUN	02 JUL 88	
1988-049F				19266	USSR	11 JUN	26 JUN 88	
1988-049G				19267	USSR	11 JUN	28 JUN 88	
1988-049H				19268	USSR	11 JUN	30 JUN 88	
1988-049J				19269	USSR	11 JUN	27 JUN 88	
1988-049K				19270	USSR	11 JUN	10 NOV 93	
1988-051D				19218	ESA	15 JUN	08 MAR 89	
1988-052B				19224	US	16 JUN	18 JUN 88	
1988-052C				19252	US	16 JUN	29 OCT 88	
1988-052D				19298	US	16 JUN	15 SEP 88	
1988-052E				19389	US	16 JUN	20 AUG 88	
1988-054A	COSMOS	1955		19258	USSR	22 JUN	27 JUN 88	
1988-054B				19259	USSR	22 JUN	23 JUN 88	
1988-054C				19262	USSR	22 JUN	07 JUL 88	
1988-055A	COSMOS	1956		19263	USSR	23 JUN	05 AUG 88	
1988-055A				19286	USSR	23 JUN	25 AUG 88	
1988-055B				19264	USSR	23 JUN	08 NOV 88	
1988-055C				19278	USSR	23 JUN	23 AUG 88	
1988-055D				19279	USSR	23 JUN	31 AUG 88	
1988-055E				19280	USSR	23 JUN	13 JUL 88	
1988-055F				19284	USSR	23 JUN	05 AUG 88	
1988-055G				19285	USSR	23 JUN	21 JUL 88	
1988-057A	COSMOS	1957		19276	USSR	07 JUL	09 JUL 88	
1988-057B				19277	USSR	07 JUL	30 JUL 88	
1988-057C				19326	USSR	07 JUL	27 JUL 88	
1988-057D				19327	USSR	07 JUL	24 JUL 88	
1988-057E				19328	USSR	07 JUL	22 JUL 88	
1988-057F				19329	USSR	07 JUL	20 AUG 88	
1988-057G				19333	USSR	21 JUL		

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988-057H	COSMOS 1958	19334	USSR	21 JUL 88	23 JUL 88	
1988-058C		19283	USSR	07 JUL 88	08 JUL 88	
1988-059C		19289	USSR	12 JUL 88	13 JUL 88	
1988-059D		19292	USSR	12 JUL 88	13 JUL 88	
1988-060A		19320	USSR	14 JUL 88	21 MAR 89	
1988-060B		19321	USSR	14 JUL 88	07 JAN 89	
1988-061A		19322	USSR	18 JUL 88	12 AUG 88	
1988-061B		19323	USSR	18 JUL 88	21 JUL 88	
1988-063D		19335	ESA	21 JUL 88	12 JUL 89	
1988-065A		19338	USSR	28 JUL 88	09 APR 90	
1988-065B	COSMOS 1960	19339	USSR	28 JUL 88	08 JAN 90	
1988-065C		19340	USSR	28 JUL 88	19 OCT 88	
1988-065D		19341	USSR	28 JUL 88	19 OCT 88	
1988-065E		19342	USSR	28 JUL 88	18 OCT 88	
1988-065F		19343	USSR	28 JUL 88	18 OCT 88	
1988-065G		19506	USSR	28 JUL 88	18 OCT 88	
1988-065H		19507	USSR	28 JUL 88	30 JAN 89	
1988-065I		19507	USSR	28 JUL 88	27 JAN 89	
1988-065J		19551	USSR	28 JUL 88	31 JAN 89	
1988-065K		19552	USSR	28 JUL 88	12 FEB 89	
1988-065L	COSMOS 1962	19552	USSR	28 JUL 88	25 FEB 89	
1988-065M		19602	USSR	28 JUL 88	10 FEB 89	
1988-065N		19603	USSR	28 JUL 88	04 JAN 90	
1988-065P		20365	USSR	28 JUL 88	04 JAN 90	
1988-065Q		20366	USSR	28 JUL 88	10 JAN 90	
1988-065R		20375	USSR	28 JUL 88	04 JAN 90	
1988-065S		20376	USSR	28 JUL 88	06 JAN 90	
1988-065T		20377	USSR	28 JUL 88	10 JAN 90	
1988-065U		20379	USSR	28 JUL 88	07 JAN 90	
1988-065W		20381	USSR	28 JUL 88	09 JAN 90	
1988-065X	COSMOS 1962	20382	USSR	28 JUL 88	10 JAN 90	
1988-065Y		20383	USSR	28 JUL 88	12 JAN 90	
1988-065Z		20384	USSR	28 JUL 88	15 JAN 90	
1988-065AA		20385	USSR	28 JUL 88	13 JAN 90	
1988-065AB		20386	USSR	28 JUL 88	13 JAN 90	
1988-065AC		20387	USSR	28 JUL 88	16 JAN 90	
1988-065AD		20388	USSR	28 JUL 88	16 JAN 90	
1988-065AE		20395	USSR	28 JUL 88	15 JAN 90	
1988-065AF		20396	USSR	28 JUL 88	13 JAN 90	
1988-066B		19345	USSR	01 AUG 88	04 AUG 88	
1988-066C	PRC 23	19346	USSR	01 AUG 88	02 AUG 88	
1988-066F		19349	USSR	01 AUG 88	02 JUN 89	
1988-067A		19368	PRC	05 AUG 88	13 AUG 88	
1988-067B		19369	PRC	05 AUG 88	19 AUG 88	
1988-067C		19370	PRC	05 AUG 88	07 AUG 88	
1988-067D		19371	PRC	05 AUG 88	07 AUG 88	
1988-067E		19381	PRC	05 AUG 88	27 AUG 88	
1988-067F		19382	PRC	05 AUG 88	17 AUG 88	
1988-067G		19383	PRC	05 AUG 88	19 AUG 88	
1988-067H		19474	PRC	05 AUG 88	26 JUN 89	
1988-068A	COSMOS 1962	19372	USSR	08 AUG 88	22 AUG 88	
1988-068B		19373	USSR	08 AUG 88	13 AUG 88	
1988-068C		19374	USSR	08 AUG 88	09 AUG 88	
1988-068D		19403	USSR	08 AUG 88	24 AUG 88	

INTER- NATIONAL DESIGNATION	DECAYED OBJECTS	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988-068E			19404	USSR	08 AUG	26 AUG 88	
1988-068F			19405	USSR	08 AUG	12 SEP 88	
1988-068G			19406	USSR	08 AUG	27 AUG 88	
1988-068H			19407	USSR	08 AUG	23 AUG 88	
1988-069B			19378	USSR	12 AUG	20 SEP 88	
1988-069C			19379	USSR	12 AUG	21 SEP 88	
1988-069E			19424	USSR	12 AUG	12 SEP 88	
1988-069F			19438	USSR	12 AUG	15 SEP 88	
1988-069G			19449	USSR	12 AUG	16 SEP 88	
1988-070A	COSMOS 1963		19384	USSR	16 AUG	02 OCT 88	
1988-070B			19385	USSR	16 AUG	21 AUG 88	
1988-071B			19398	USSR	18 AUG	21 AUG 88	
1988-071C			19399	USSR	18 AUG	19 AUG 88	
1988-072A	COSMOS 1964		19412	USSR	23 AUG	07 SEP 88	
1988-072B			19413	USSR	23 AUG	28 AUG 88	
1988-072C			19417	USSR	23 AUG	24 AUG 88	
1988-072D			19418	USSR	23 AUG	24 AUG 88	
1988-072E			19469	USSR	23 AUG	10 SEP 88	
1988-072F			19470	USSR	23 AUG	11 SEP 88	
1988-072G			19471	USSR	23 AUG	25 SEP 88	
1988-072H			19472	USSR	23 AUG	09 SEP 88	
1988-073A	COSMOS 1965		19414	USSR	23 AUG	22 SEP 88	
1988-073B			19415	USSR	23 AUG	25 AUG 88	
1988-073C			19416	USSR	23 AUG	23 AUG 88	
1988-073D			19523	USSR	23 AUG	04 OCT 88	
1988-073E			19524	USSR	23 AUG	18 OCT 88	
1988-073F			19525	USSR	23 AUG	13 OCT 88	
1988-073G			19526	USSR	23 AUG	02 OCT 88	
1988-075A	SOYUZ TM-6		19443	USSR	29 AUG	21 DEC 88	
1988-075B			19444	USSR	29 AUG	31 AUG 88	
1988-076B			19446	USSR	30 AUG	30 SEP 88	
1988-076C			19447	USSR	30 AUG	16 SEP 88	
1988-079A	COSMOS 1967		19462	USSR	06 SEP	15 SEP 88	
1988-079B			19463	USSR	06 SEP	15 SEP 88	
1988-079C			19465	USSR	06 SEP	08 SEP 88	
1988-079D			19466	USSR	06 SEP	08 SEP 88	
1988-079E			19492	USSR	06 SEP	16 SEP 88	
1988-079F			19493	USSR	06 SEP	16 SEP 88	
1988-079G			19494	USSR	06 SEP	23 SEP 88	
1988-079H			19497	USSR	06 SEP	18 SEP 88	
1988-079J			19498	USSR	06 SEP	18 SEP 88	
1988-079K			19499	USSR	06 SEP	16 SEP 88	
1988-081D			19487	ESA	08 SEP	03 JAN 90	
1988-082A	COSMOS 1968		19488	USSR	09 SEP	23 SEP 88	
1988-082B			19489	USSR	09 SEP	11 SEP 88	
1988-082C			19527	USSR	09 SEP	28 SEP 88	
1988-082D			19528	USSR	09 SEP	16 OCT 88	
1988-082E			19529	USSR	09 SEP	27 SEP 88	
1988-082F	PROGRESS 38		19530	USSR	09 SEP	26 SEP 88	
1988-083A			19486	USSR	09 SEP	23 NOV 88	
1988-083B			19491	USSR	09 SEP	12 SEP 88	
1988-084A	COSMOS 1969		19495	USSR	15 SEP	13 NOV 88	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988-084B		19496	USSR	15 SEP	19 SEP 88	
1988-084C		19500	USSR	15 SEP	16 SEP 88	
1988-085D		19504	USSR	16 SEP	16 SEP 88	
1988-086B		19509	JAPAN	16 SEP	21 SEP 88	
1988-087A	HORIZON 1	19519	ISRAEL	19 SEP	14 JAN 89	
1988-087B		19520	ISRAEL	19 SEP	12 JAN 89	
1988-088A		19521	USSR	22 SEP	10 OCT 88	
1988-088B	COSMOS 1973	19522	USSR	22 SEP	01 OCT 88	
1988-088C		19564	USSR	22 SEP	22 NOV 88	
1988-088D		19565	USSR	22 SEP	31 MAR 89	
1988-088E		19566	USSR	22 SEP	20 NOV 88	
1988-088F		19567	USSR	22 SEP	12 OCT 88	
1988-088G		19572	USSR	22 SEP	02 NOV 88	
1988-088H		19575	USSR	22 SEP	01 NOV 88	
1988-088J		19591	USSR	22 SEP	02 FEB 89	
1988-089C		19534	US	24 SEP	18 JUN 92	
1988-090B		19542	USSR	29 SEP	29 OCT 88	
1988-090C		19543	USSR	29 SEP	22 OCT 88	
1988-091A	STS 26	19547	US	29 SEP	03 OCT 88	
1988-092B		19555	USSR	03 OCT	23 OCT 88	
1988-092C		19556	USSR	03 OCT	28 OCT 88	
1988-092E		19669	USSR	03 OCT	31 DEC 88	
1988-094A	COSMOS 1976	19582	USSR	13 OCT	27 OCT 88	
1988-094B		19583	USSR	13 OCT	21 OCT 88	
1988-094C		19614	USSR	13 OCT	14 APR 89	
1988-094D		19615	USSR	13 OCT	12 NOV 88	
1988-094E		19616	USSR	13 OCT	18 DEC 88	
1988-094F		19617	USSR	13 OCT	10 DEC 88	
1988-094G		19623	USSR	13 OCT	16 NOV 88	
1988-095B		19597	USSR	20 OCT	22 OCT 88	
1988-095C		19598	USSR	20 OCT	21 OCT 88	
1988-096B		19609	USSR	25 OCT	25 NOV 88	
1988-096C		19610	USSR	25 OCT	09 NOV 88	
1988-097A	COSMOS 1978	19612	USSR	27 OCT	10 NOV 88	
1988-097B		19613	USSR	27 OCT	03 NOV 88	
1988-097C		19627	USSR	27 OCT	12 NOV 88	
1988-097D		19628	USSR	27 OCT	12 NOV 88	
1988-097E		19629	USSR	27 OCT	14 NOV 88	
1988-097F		19630	USSR	27 OCT	13 NOV 88	
1988-097G		19631	USSR	27 OCT	23 NOV 88	
1988-100A	BURAN	19637	USSR	15 NOV	15 NOV 88	
1988-101A	COSMOS 1979	19647	USSR	18 NOV	25 DEC 89	
1988-101B		19648	USSR	18 NOV	18 NOV 88	
1988-102G		19811	USSR	23 NOV	17 OCT 90	
1988-103A	COSMOS 1981	19651	USSR	24 NOV	08 DEC 88	
1988-103B		19652	USSR	24 NOV	10 DEC 88	
1988-103C		19653	USSR	24 NOV	27 NOV 88	
1988-103D		19654	USSR	24 NOV	28 NOV 88	
1988-103E		19655	USSR	24 NOV	28 NOV 88	
1988-103F		19674	USSR	24 NOV	28 NOV 88	
1988-103G		19675	USSR	24 NOV	17 DEC 88	
1988-103H		19676	USSR	24 NOV	09 DEC 88	
					11 DEC 88	

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## LAUNCH

## DECAY

## NOTES

1988-104A	SOYUZ TM-7	19660	USSR	26 NOV	27 APR 89
1988-104B		19661	USSR	26 NOV	28 NOV 88
1988-105A	COSMOS 1982	19662	USSR	30 NOV	14 DEC 88
1988-105B		19663	USSR	30 NOV	10 DEC 88
1988-105C		19694	USSR	30 NOV	20 JAN 89
1988-105D		19695	USSR	30 NOV	13 JAN 89
1988-105E		19696	USSR	30 NOV	27 APR 89
1988-105F		19697	USSR	30 NOV	14 JAN 89
1988-105G		19698	USSR	30 NOV	20 DEC 88
1988-106A	STS 27	19670	US	02 DEC	06 DEC 88
1988-107A	COSMOS 1983	19672	USSR	08 DEC	22 DEC 88
1988-107B		19673	USSR	08 DEC	14 DEC 88
1988-107C		19677	USSR	08 DEC	10 DEC 88
1988-107D		19678	USSR	08 DEC	10 DEC 88
1988-107E		19679	USSR	08 DEC	09 DEC 88
1988-107F		19709	USSR	08 DEC	23 DEC 88
1988-107G		19717	USSR	08 DEC	23 DEC 88
1988-107H		19718	USSR	08 DEC	28 DEC 88
1988-107J		19719	USSR	08 DEC	24 DEC 88
1988-108B		19684	USSR	10 DEC	12 DEC 88
1988-108C		19685	USSR	10 DEC	11 DEC 88
1988-108E		19691	USSR	10 DEC	13 NOV 91
1988-108F		19699	USSR	10 DEC	06 SEP 89
1988-109D		19690	ESA	11 DEC	22 OCT 93
1988-110A	COSMOS 1984	19705	USSR	16 DEC	13 FEB 89
1988-110B		19706	USSR	16 DEC	20 DEC 88
1988-112B		19714	USSR	22 DEC	02 JAN 89
1988-112C		19715	USSR	22 DEC	02 JAN 89
1988-112E		19722	USSR	22 DEC	03 JAN 89
1988-112F		19723	USSR	22 DEC	30 DEC 88
1988-112G		19724	USSR	22 DEC	24 DEC 88
1988-112H		19725	USSR	22 DEC	03 JAN 89
1988-113A	COSMOS 1985	19720	USSR	23 DEC	04 MAY 92
1988-113B		19721	USSR	23 DEC	15 MAR 89
1988-113C		19726	USSR	23 DEC	02 MAR 89
1988-113D		19727	USSR	23 DEC	03 MAR 89
1988-113E		19711	USSR	23 DEC	17 MAR 89
1988-113F		19712	USSR	23 DEC	14 MAR 89
1988-113G		19763	USSR	23 DEC	15 MAR 89
1988-113J		19885	USSR	23 DEC	04 MAY 89
1988-113K		19886	USSR	23 DEC	26 APR 89
1988-113L		19912	USSR	23 DEC	25 APR 89
1988-113M		19943	USSR	23 DEC	15 JUN 89
1988-113N		19944	USSR	23 DEC	16 JUN 89
1988-113P		19958	USSR	23 DEC	17 JUN 89
1988-113Q		19959	USSR	23 DEC	17 JUN 89
1988-113R		20097	USSR	23 DEC	26 AUG 89
1988-113S		20098	USSR	23 DEC	25 AUG 89
1988-113T		20099	USSR	23 DEC	28 AUG 89
1988-113U		20181	USSR	23 DEC	02 OCT 89
1988-113V		20182	USSR	23 DEC	02 OCT 89
1988-113W		20183	USSR	23 DEC	04 OCT 89

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988-113X		20184	USSR	23 DEC	01 OCT 89	
1988-113Y		20286	USSR	23 DEC	14 NOV 89	
1988-113Z		20287	USSR	23 DEC	13 NOV 89	
1988-113AA		20288	USSR	23 DEC	12 NOV 89	
1988-113AB		20289	USSR	23 DEC	14 NOV 89	
1988-113AC		20290	USSR	23 DEC	13 NOV 89	
1988-113AE		20342	USSR	23 DEC	01 JAN 90	
1988-113AF		20343	USSR	23 DEC	31 DEC 89	
1988-113AG		20345	USSR	23 DEC	31 DEC 89	
1988-113AH		20346	USSR	23 DEC	31 DEC 89	
1988-113AJ		20422	USSR	23 DEC	28 FEB 90	
1988-113AK		20423	USSR	23 DEC	21 FEB 90	
1988-113AL		20424	USSR	23 DEC	25 FEB 90	
1988-113AM		20425	USSR	23 DEC	25 FEB 90	
1988-113AN		20430	USSR	23 DEC	24 FEB 90	
1988-113AP		20431	USSR	23 DEC	18 FEB 90	
1988-114A	PROGRESS 39	19728	USSR	25 DEC	07 FEB 89	
1988-114B		19729	USSR	25 DEC	27 DEC 88	
1988-115B		19731	USSR	28 DEC	21 JAN 89	
1988-115C		19732	USSR	28 DEC	22 JAN 89	
1988-115E		19742	USSR	28 DEC	16 JAN 89	
1988-115F		19748	USSR	28 DEC	25 JAN 89	
1988-116A	COSMOS 1986	19734	USSR	29 DEC	11 FEB 89	
1988-116B		19735	USSR	29 DEC	02 JAN 89	
1989-049B		20096	USSR	27 JUN	29 JUN 89	
1989-065C		20190	USSR	22 AUG	23 AUG 89	
1989 LAUNCHES						
1988-113AD		20291	USSR	23 DEC	13 NOV 89	
1989-001D		19752	USSR	10 JAN	10 JAN 89	
1989-002A	COSMOS 1990	19756	USSR	12 JAN	11 FEB 89	
1989-002B		19757	USSR	12 JAN	14 JAN 89	
1989-002C		19794	USSR	12 JAN	12 FEB 89	
1989-002D		19795	USSR	12 JAN	11 FEB 89	
1989-003A	COSMOS 1991	19758	USSR	18 JAN	01 FEB 89	
1989-003B		19759	USSR	18 JAN	27 JAN 89	
1989-003C		19760	USSR	18 JAN	20 JAN 89	
1989-003D		19761	USSR	18 JAN	19 JAN 89	
1989-003E		19762	USSR	18 JAN	20 JAN 89	
1989-003F		19778	USSR	18 JAN	02 MAR 89	
1989-003G		19779	USSR	18 JAN	11 FEB 89	
1989-003H		19780	USSR	18 JAN	18 JUN 89	
1989-003J		19781	USSR	18 JAN	07 MAR 89	
1989-003K		19782	USSR	18 JAN	18 FEB 89	
1989-004B		19766	USSR	26 JAN	28 JAN 89	
1989-004C		19767	USSR	26 JAN	26 JAN 89	
1989-004D		19768	USSR	26 JAN	31 JUL 91	
1989-007A	COSMOS 1993	19774	USSR	28 JAN	27 MAR 89	
1989-007B		19775	USSR	28 JAN	01 FEB 89	
1989-008A	PROGRESS 40	19783	USSR	10 FEB	05 MAR 89	
1989-008B		19784	USSR	10 FEB	12 FEB 89	

INTER- NATIONAL DESIGNATION		NAME	DECAYED OBJECTS		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989-008C					19871	USSR	10 FEB	07 MAR 89	
1989-008D					19872	USSR	10 FEB	07 MAR 89	
1989-010A	COSMOS 2000				19792	USSR	10 FEB	03 MAR 89	
1989-010B					19793	USSR	10 FEB	12 FEB 89	
1989-010C					19864	USSR	10 FEB	30 MAY 89	
1989-010D					19865	USSR	10 FEB	29 MAR 89	
1989-010E					19866	USSR	10 FEB	09 MAR 89	
1989-010F					19867	USSR	10 FEB	24 MAR 89	
1989-010G					19873	USSR	10 FEB	15 MAR 89	
1989-011B					19797	USSR	14 FEB	11 MAR 89	
1989-011C					19798	USSR	14 FEB	03 MAR 89	
1989-011E					19956	USSR	14 FEB	30 APR 89	
1989-012A	COSMOS 2002				19800	USSR	14 FEB	15 OCT 89	
1989-012B					19801	USSR	14 FEB	27 JUL 89	
1989-012C					19805	USSR	14 FEB	03 MAR 89	
1989-012D					19806	USSR	14 FEB	10 MAR 89	
1989-012E					19821	USSR	14 FEB	11 MAR 89	
1989-012F					19825	USSR	14 FEB	08 MAR 89	
1989-012G					19832	USSR	14 FEB	10 MAR 89	
1989-012H					19846	USSR	14 FEB	09 MAR 89	
1989-012J					19847	USSR	14 FEB	11 MAR 89	
1989-012K					19848	USSR	14 FEB	11 MAR 89	
1989-012L					19849	USSR	14 FEB	06 MAR 89	
1989-012M					19850	USSR	14 FEB	10 MAR 89	
1989-013B					19803	US	14 FEB	13 MAR 89	
1989-013C					19804	US	14 FEB	06 DEC 89	
1989-014B					19808	USSR	15 FEB	01 MAR 89	
1989-014C					19809	USSR	15 FEB	09 MAR 89	
1989-014D					19818	USSR	17 FEB	03 MAR 89	
1989-015A	COSMOS 2003				19819	USSR	17 FEB	23 FEB 89	
1989-015B					19820	USSR	17 FEB	18 FEB 89	
1989-015C					19868	USSR	17 FEB	08 MAR 89	
1989-015D					19869	USSR	17 FEB	04 MAR 89	
1989-015E					19870	USSR	17 FEB	04 MAR 89	
1989-015F					19875	USSR	17 FEB	05 MAR 89	
1989-015G					19875	USSR	17 FEB	05 MAR 89	
1989-016B					19823	JAPAN	21 FEB	04 APR 89	
1989-016D					19841	JAPAN	21 FEB	28 FEB 89	
1989-016E					19842	JAPAN	21 FEB	27 FEB 89	
1989-016F					19843	JAPAN	21 FEB	25 FEB 89	
1989-016G					19844	JAPAN	21 FEB	25 FEB 89	
1989-016H					19845	JAPAN	21 FEB	25 FEB 89	
1989-016J					19889	JAPAN	21 FEB	22 MAR 89	
1989-016L					19962	JAPAN	21 FEB	01 FEB 92	
1989-019A	COSMOS 2005				19862	USSR	02 MAR	25 APR 89	
1989-019B					19863	USSR	02 MAR	08 MAR 89	
1989-020C					19877	ESA	06 MAR	21 APR 92	
1989-020D					19878	ESA	06 MAR	22 DEC 92	
1989-021A	STS 29				19882	US	13 MAR	18 MAR 89	
1989-022A	COSMOS 2006				19893	USSR	16 MAR	31 MAR 89	
1989-022B					19894	USSR	16 MAR	03 APR 89	
1989-022C					19897	USSR	16 MAR	20 MAR 89	
1989-022D					19898	USSR	16 MAR	20 MAR 89	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989-022E		19899	USSR	16 MAR	18 MAR 89	
1989-022F		19914	USSR	16 MAR	17 APR 89	
1989-022G		19915	USSR	16 MAR	31 MAR 89	
1989-022H		19916	USSR	16 MAR	25 AUG 89	
1989-022J		19917	USSR	16 MAR	26 APR 89	
1989-022K		19918	USSR	16 MAR	12 APR 89	
1989-023A	PROGRESS 41	19895	USSR	16 MAR	25 APR 89	
1989-023B		19896	USSR	16 MAR	18 MAR 89	
1989-023C		19940	USSR	16 MAR	03 MAY 89	
1989-024A	COSMOS 2007	19900	USSR	23 MAR	22 SEP 89	
1989-024B		19901	USSR	23 MAR	25 MAR 89	
1989-026A		19911	US	24 MAR	23 JUN 92	
1989-029A	COSMOS 2017	19923	USSR	06 APR	19 APR 89	
1989-029B		19924	USSR	06 APR	16 APR 89	
1989-029C		19925	USSR	06 APR	07 APR 89	
1989-029D		19926	USSR	06 APR	07 APR 89	
1989-029E		19927	USSR	06 APR	08 APR 89	
1989-029F		19934	USSR	06 APR	22 APR 89	
1989-029G		19935	USSR	06 APR	27 APR 89	
1989-029H		19936	USSR	06 APR	19 APR 89	
1989-029J		19937	USSR	06 APR	21 APR 89	
1989-030B		19929	USSR	14 APR	16 APR 89	
1989-030C		19930	USSR	14 APR	14 APR 89	
1989-030E	COSMOS 2018	19932	USSR	14 APR	06 FEB 90	
1989-031A		19938	USSR	20 APR	19 JUN 89	
1989-031B		19939	USSR	20 APR	24 APR 89	
1989-032A	FOTON 2	19941	USSR	26 APR	11 MAY 89	
1989-032B		19942	USSR	26 APR	08 MAY 89	
1989-032C		19978	USSR	26 APR	31 MAY 89	
1989-032D		19979	USSR	26 APR	15 MAY 89	
1989-032E		19984	USSR	26 APR	18 MAY 89	
1989-032F		19985	USSR	26 APR	15 MAY 89	
1989-033A	STS 30	19968	US	04 MAY	08 MAY 89	
1989-034A	COSMOS 2019	19972	USSR	05 MAY	18 MAY 89	
1989-034B		19973	USSR	05 MAY	11 MAY 89	
1989-034C		19974	USSR	05 MAY	06 MAY 89	
1989-034D		19975	USSR	05 MAY	07 MAY 89	
1989-034E		19988	USSR	05 MAY	20 MAY 89	
1989-034F		19989	USSR	05 MAY	19 MAY 89	
1989-036A	COSMOS 2020	19986	USSR	17 MAY	15 JUL 89	
1989-036B		19987	USSR	17 MAY	21 MAY 89	
1989-037A	COSMOS 2021	20000	USSR	24 MAY	06 JUL 89	
1989-037B		20001	USSR	24 MAY	27 MAY 89	
1989-037C	RESURS-F	20002	USSR	24 MAY	25 MAY 89	
1989-038A		20006	USSR	25 MAY	17 JUN 89	
1989-038B		20007	USSR	25 MAY	26 MAY 89	
1989-038C		20056	USSR	25 MAY	23 JUL 89	
1989-038D		20060	USSR	25 MAY	24 JUL 89	
1989-038E		20076	USSR	25 MAY	20 JUN 89	
1989-038F		20077	USSR	25 MAY	19 JUN 89	
1989-038G		20078	USSR	25 MAY	20 JUN 89	
1989-038H		20079	USSR	25 MAY	02 JUL 89	

INTER- NATIONAL DESIGNATION	DECAVED OBJECTS  NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989-038J	COSMOS 2025	20080	USSR	25 MAY	19 JUN 89	
1989-039D		20027	USSR	31 MAY	31 JAN 89	
1989-040A		20035	USSR	01 JUN	15 JUN 89	
1989-040B		20036	USSR	01 JUN	08 JUN 89	
1989-040C		20037	USSR	01 JUN	03 JUN 89	
1989-040D		20038	USSR	01 JUN	02 JUN 89	
1989-040E		20039	USSR	01 JUN	17 JUN 89	
1989-040F		20070	USSR	01 JUN	15 JUN 89	
1989-040G		20071	USSR	01 JUN	01 JUL 89	
1989-040H		20072	USSR	01 JUN	10 JUL 89	
1989-041D	COSMOS 2027	20043	ESA	05 JUN	10 MAY 92	
1989-043B		20053	USSR	08 JUN	05 JUL 89	
1989-043C		20054	USSR	08 JUN	08 JUL 89	
1989-043E		20057	USSR	08 JUN	06 JUL 89	
1989-043F		20058	USSR	08 JUN	29 JUN 89	
1989-043G		20059	USSR	08 JUN	30 JUN 89	
1989-044B		20062	US	10 JUN	12 JUL 89	
1989-044C		20063	US	10 JUN	06 MAY 91	
1989-045A		20064	USSR	14 JUN	14 APR 92	
1989-045B		20065	USSR	14 JUN	25 MAR 91	
1989-047A	COSMOS 2028	20073	USSR	16 JUN	06 JUL 89	
1989-047B		20074	USSR	16 JUN	21 JUN 89	
1989-047C		20075	USSR	16 JUN	17 JUN 89	
1989-047D		20111	USSR	16 JUN	13 JUL 89	
1989-047E		20112	USSR	16 JUL	06 JUL 89	
1989-047F		20113	USSR	16 JUL	07 JUL 89	
1989-047G		20114	USSR	16 JUN	10 JUL 89	
1989-048B		20084	USSR	21 JUN	23 JUN 89	
1989-048C		20085	USSR	21 JUN	22 JUN 89	
1989-048E		20093	USSR	21 JUN	30 MAR 90	
1989-049A	COSMOS 2029	20095	USSR	27 JUN	11 JUL 89	
1989-049C		20117	USSR	28 JUN	14 JUL 89	
1989-049D		20118	USSR	28 JUN	15 JUL 89	
1989-049E		20119	USSR	28 JUN	05 AUG 89	
1989-049F		20120	USSR	28 JUN	18 JUL 89	
1989-049G		20121	USSR	27 JUN	14 JUL 89	
1989-051A		20105	USSR	05 JUL	07 JUL 89	
1989-051B		20106	USSR	05 JUL	07 JUL 89	
1989-051C		20139	USSR	05 JUL	15 AUG 89	
1989-051D		20140	USSR	05 JUL	14 OCT 89	
1989-051E	COSMOS 2030	20141	USSR	05 JUL	07 AUG 89	
1989-051G		20142	USSR	05 JUL	18 AUG 89	
1989-051H		20143	USSR	05 JUL	08 AUG 89	
1989-052B		20144	USSR	05 JUL	23 JUL 89	
1989-052C		20108	USSR	05 JUL	07 JUL 89	
1989-052E		20109	USSR	05 JUL	06 JUL 89	
1989-054A		20115	USSR	05 JUL	15 AUG 91	
1989-054B		20124	USSR	12 JUL	29 JUL 89	
1989-055A		20125	USSR	12 JUL	16 JUL 89	
1989-055B		20134	USSR	18 JUL	08 AUG 89	
1989-055C	RESURS - F3	20135	USSR	18 JUL	20 JUL 89	
		20160	USSR	18 JUL	19 SEP 89	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989-055D	COSMOS 2031	20161	USSR	18 JUL	19 SEP 89	
1989-055E		20162	USSR	18 JUL	09 AUG 89	
1989-055F		20163	USSR	18 JUL	27 AUG 89	
1989-055G		20165	USSR	18 JUL	13 AUG 89	
1989-055H		20166	USSR	18 JUL	12 AUG 89	
1989-056A		20136	USSR	18 JUL	15 SEP 89	
1989-056B		20137	USSR	18 JUL	21 JUL 89	
1989-056C		20138	USSR	18 JUL	19 JUL 89	
1989-056D		20206	USSR	18 JUL	04 SEP 89	
1989-056E		20207	USSR	18 JUL	04 SEP 89	
1989-056F	COSMOS 2032	20208	USSR	18 JUL	04 SEP 89	
1989-056G		20209	USSR	18 JUL	04 SEP 89	
1989-056H		20210	USSR	18 JUL	04 SEP 89	
1989-056J		20211	USSR	18 JUL	04 SEP 89	
1989-056K		20212	USSR	18 JUL	04 SEP 89	
1989-056L		20213	USSR	18 JUL	03 SEP 89	
1989-057A		20145	USSR	20 JUL	03 AUG 89	
1989-057B		20146	USSR	20 JUL	22 JUL 89	
1989-057C		20156	USSR	20 JUL	10 AUG 89	
1989-057D		20157	USSR	20 JUL	04 AUG 89	
1989-057E	COSMOS 2033	20158	USSR	20 JUL	06 AUG 89	
1989-057F		20159	USSR	20 JUL	05 AUG 89	
1989-058A		20147	USSR	20 JUL	06 JAN 91	
1989-058B		20148	USSR	24 JUL	24 JUL 89	
1989-060A		20151	USSR	02 AUG	16 AUG 89	
1989-060B		20152	USSR	02 AUG	04 AUG 89	
1989-060C		20177	USSR	02 AUG	18 AUG 89	
1989-060D		20178	USSR	02 AUG	17 AUG 89	
1989-060E		20179	USSR	02 AUG	17 AUG 89	
1989-060F		20180	USSR	02 AUG	22 AUG 89	
1989-061A	STS-28	20164	US	08 AUG	13 AUG 89	
1989-062D		20171	ESA	08 AUG	08 MAR 92	
1989-063A		20175	USSR	15 AUG	14 SEP 89	
1989-063B		20176	USSR	15 AUG	16 AUG 89	
1989-063C		20231	USSR	16 AUG	15 SEP 89	
1989-063D		20239	USSR	16 AUG	16 SEP 89	
1989-063E		20240	USSR	16 AUG	19 SEP 89	
1989-063F		20241	USSR	16 AUG	16 SEP 89	
1989-064B		20186	US	18 AUG	09 SEP 89	
1989-064C		20187	US	18 AUG	10 JUN 90	
1989-065A	COSMOS 2036	20188	USSR	22 AUG	05 SEP 89	
1989-065B		20189	USSR	22 AUG	29 AUG 89	
1989-065D		20214	USSR	24 AUG	10 SEP 89	
1989-065E		20215	USSR	24 AUG	05 SEP 89	
1989-065F		20216	USSR	24 AUG	05 SEP 89	
1989-066A		20191	USSR	23 AUG	01 DEC 89	
1989-066B		20192	USSR	23 AUG	24 AUG 89	
1989-067B		20194	US	27 AUG	22 OCT 89	
1989-069C		20204	US	04 SEP	24 SEP 89	
1989-071A	SOYUZ TM-8	20218	USSR	05 SEP	19 FEB 90	
1989-071B		20219	USSR	05 SEP	07 SEP 89	
1989-073A		20222	USSR	06 SEP	22 SEP 89	
1989-073A	RESURS F-5	20222	USSR	06 SEP	22 SEP 89	

INTER- NATIONAL DESIGNATION	DECEASED OBJECTS NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989-073B	COSMOS 2044	20223	USSR	06 SEP	08 SEP 89	
1989-073C		20248	USSR	22 SEP	12 OCT 89	
1989-073D		20249	USSR	22 SEP	26 SEP 89	
1989-073E		20250	USSR	22 SEP	28 SEP 89	
1989-073F		20251	USSR	22 SEP	25 SEP 89	
1989-073G		20252	USSR	22 SEP	24 SEP 89	
1989-075A		20242	USSR	15 SEP	29 SEP 89	
1989-075B		20243	USSR	15 SEP	18 SEP 89	
1989-075C		20267	USSR	15 SEP	01 OCT 89	
1989-075D		20268	USSR	15 SEP	30 SEP 89	
1989-075E	COSMOS 2045	20269	USSR	15 SEP	29 SEP 89	
1989-076A		20244	USSR	22 SEP	02 OCT 89	
1989-076B		20245	USSR	22 SEP	28 SEP 89	
1989-076C		20246	USSR	22 SEP	23 SEP 89	
1989-076D		20247	USSR	22 SEP	23 SEP 89	
1989-076E		20274	USSR	22 SEP	04 OCT 89	
1989-076F		20275	USSR	22 SEP	05 OCT 89	
1989-076G		20276	USSR	22 SEP	09 OCT 89	
1989-076H		20277	USSR	22 SEP	04 OCT 89	
1989-076J		20278	USSR	22 SEP	03 OCT 89	
1989-077B	COSMOS 2046	20254	US	25 SEP	09 MAY 91	
1989-078B		20256	USSR	27 SEP	26 OCT 89	
1989-078C		20257	USSR	27 SEP	24 OCT 89	
1989-079A		20259	USSR	27 SEP	16 APR 91	
1989-079B		20260	USSR	27 SEP	28 SEP 89	
1989-081B		20265	USSR	28 SEP	30 SEP 89	
1989-081C		20265	USSR	28 SEP	29 SEP 89	
1989-081E		20270	USSR	28 SEP	22 JUL 90	
1989-081F		20271	USSR	28 SEP	28 SEP 91	
1989-082A	COSMOS 2047	20279	USSR	03 OCT	21 NOV 89	
1989-082B		20280	USSR	03 OCT	06 OCT 89	
1989-083A		20292	USSR	17 OCT	26 OCT 89	
1989-083B		20293	USSR	17 OCT	22 OCT 89	
1989-083C		20294	USSR	17 OCT	18 OCT 89	
1989-083D		20295	USSR	17 OCT	18 OCT 89	
1989-083E		20296	USSR	17 OCT	18 OCT 89	
1989-083F		20310	USSR	17 OCT	30 OCT 89	
1989-083G		20311	USSR	17 OCT	29 OCT 89	
1989-083H		20312	USSR	17 OCT	27 OCT 89	
1989-083J	STS-34	20313	USSR	17 OCT	28 OCT 89	
1989-083K		20314	USSR	17 OCT	27 OCT 89	
1989-084A		20297	US	18 OCT	23 OCT 89	
1989-085C		20304	US	21 OCT	23 OCT 89	
1989-088A		20320	USSR	17 NOV	05 DEC 91	
1989-088B		20321	USSR	17 NOV	19 JUN 90	
1989-090A		20329	US	23 NOV	19 NOV 89	
1989-091B		20331	USSR	23 NOV	28 NOV 89	
1989-091C		20332	USSR	23 NOV	18 DEC 89	
1989-092A		20334	USSR	24 NOV	10 DEC 89	
1989-093B	COSMOS 2051	20336	USSR	26 NOV	21 JAN 91	
1989-093C		20337	USSR	26 NOV	04 DEC 89	
1989-094C		20340	USSR	26 NOV	27 NOV 89	
1989-094C		20340	USSR	28 NOV	22 DEC 89	

INTER- NATIONAL DESIGNATION		DECEASED OBJECTS	CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1989-094D			20341		USSR	28 NOV	20 DEC 89	
1989-095A	COSMOS 2052		20350		USSR	30 NOV	24 JAN 90	
1989-095B			20351		USSR	30 NOV	03 DEC 89	
1989-096B			20353		USSR	01 DEC	09 MAR 91	
1989-096D			20358		USSR	01 DEC	15 APR 91	
1989-097C			20363		US	11 DEC	09 AUG 90	
1989-098B			20368		USSR	15 DEC	17 DEC 89	
1989-098C			20369		USSR	15 DEC	16 DEC 89	
1989-098E			20371		USSR	15 DEC	04 SEP 91	
1989-098F			20372		USSR	15 DEC	06 JUN 91	
1989-099A	PROGRESS M-2		20373		USSR	20 DEC	09 FEB 90	
1989-099B			20374		USSR	20 DEC	21 DEC 89	
1989-100C			20397		USSR	27 DEC	12 MAR 90	
1989-100D			20398		USSR	27 DEC	28 MAR 90	
1989-100E			20408		USSR	27 DEC	09 MAR 90	
1989-100F			20467		USSR	27 DEC	31 MAR 90	
1989-100G			20468		USSR	27 DEC	26 MAR 90	
1989-100H			20515		USSR	27 DEC	24 APR 90	
1989-100J			20522		USSR	27 DEC	28 APR 90	
1989-100K			20531		USSR	27 DEC	30 APR 90	
1989-100L			20532		USSR	27 DEC	07 MAY 90	
1989-100M			20637		USSR	31 DEC	16 AUG 90	
1989-100N			20640		USSR	31 DEC	20 AUG 90	
1989-100P			20802		USSR	31 DEC	30 OCT 90	
1989-100Q			20803		USSR	31 DEC	30 OCT 90	
1989-100R			20821		USSR	31 DEC	16 NOV 90	
1989-100S			20822		USSR	31 DEC	21 NOV 90	
1989-100T			20823		USSR	27 DEC	16 NOV 90	
1989-100U			20911		USSR	27 DEC	17 NOV 90	
1989-100V			21020		USSR	31 DEC	06 FEB 91	
1989-100X			21022		USSR	31 DEC	07 FEB 91	
1989-100Y			21023		USSR	31 DEC	08 FEB 91	
1989-100Z			21042		USSR	31 DEC	12 FEB 91	
1989-100AA			21043		USSR	31 DEC	12 FEB 91	
1989-100AB			21064		USSR	27 DEC	12 FEB 91	
1989-100AC			21205		USSR	27 DEC	24 APR 91	
1989-100AD			21206		USSR	27 DEC	23 APR 91	
1989-100AE			21207		USSR	27 DEC	27 APR 91	
1989-100AF			21537		USSR	27 DEC	14 AUG 91	
1989-100AG			21540		USSR	27 DEC	13 AUG 91	
1989-100AH			21767		USSR	27 DEC	23 NOV 91	
1989-100AJ			21768		USSR	27 DEC	22 NOV 91	
1989-100AK			21769		USSR	27 DEC	21 NOV 91	
1989-100AL			21770		USSR	27 DEC	22 NOV 91	
1989-100AM			21771		USSR	27 DEC	22 NOV 91	
1989-100AN			21772		USSR	27 DEC	29 NOV 91	
1989-100AP			21773		USSR	27 DEC	27 NOV 91	
1989-100AQ			21774		USSR	27 DEC	06 DEC 91	
1989-101B			20392		USSR	27 DEC	28 DEC 89	
1989-101C			20393		USSR	27 DEC	28 DEC 89	
1989-101F			20400		USSR	27 DEC	31 JUL 91	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990 LAUNCHES							
1989-100W			21021	USSR	27 DEC	21 DEC 90	
1990-001C			20403	US	01 JAN	09 JAN 90	
1990-001E			20405	US	01 JAN	15 JAN 90	
1990-002A	STS 32		20409	US	09 JAN	20 JAN 90	
1990-003A	COSMOS 2055		20426	USSR	17 JAN	29 JAN 90	
1990-003B			20427	USSR	17 JAN	24 JAN 90	
1990-003C			20428	USSR	17 JAN	19 JAN 90	
1990-003D			20429	USSR	17 JAN	18 JAN 90	
1990-003E			20462	USSR	17 JAN	03 FEB 90	
1990-003F			20463	USSR	17 JAN	30 JAN 90	
1990-003G			20464	USSR	17 JAN	30 JAN 90	
1990-006B			20445	USSR	23 JAN	22 FEB 90	
1990-006D			20447	USSR	23 JAN	15 FEB 90	
1990-007C			20449	JAPAN	24 JAN	29 JAN 90	
1990-009A	COSMOS 2057		20457	USSR	25 JAN	19 MAR 90	
1990-009B			20458	USSR	25 JAN	30 JAN 90	
1990-012A	COSMOS 2059		20476	USSR	06 FEB	12 NOV 90	
1990-012B			20477	USSR	06 FEB	12 JUL 90	
1990-012D			20482	USSR	06 FEB	24 MAR 90	
1990-012E			20483	USSR	06 FEB	06 MAR 90	
1990-012F			20484	USSR	06 FEB	06 MAR 90	
1990-012G			20485	USSR	06 FEB	05 MAR 90	
1990-012H			20486	USSR	06 FEB	07 MAR 90	
1990-012J			20487	USSR	06 FEB	25 FEB 90	
1990-012K			20490	USSR	06 FEB	06 MAR 90	
1990-012L			20492	USSR	06 FEB	05 MAR 90	
1990-012M			20493	USSR	06 FEB	27 FEB 90	
1990-014A	SOYUZ TM-9		20494	USSR	11 FEB	09 AUG 90	
1990-014B			20495	USSR	11 FEB	13 FEB 90	
1990-015B			20497	US	14 FEB	24 MAY 92	
1990-015C			20498	US	14 FEB	07 DEC 90	
1990-016B			20500	USSR	15 FEB	17 FEB 90	
1990-016C			20501	USSR	15 FEB	17 FEB 90	
1990-016E			20506	USSR	15 FEB	03 DEC 90	
1990-016F			20507	USSR	15 FEB	04 SEP 91	
1990-019A	STS-36		20512	US	28 FEB	04 MAR 90	
1990-020A	PROGRESS M-3		20513	USSR	28 FEB	28 APR 90	
1990-020B			20514	USSR	28 FEB	02 MAR 90	
1990-021B			20524	US	14 MAR	28 MAR 90	
1990-022A	COSMOS 2060		20525	USSR	14 MAR	01 SEP 91	
1990-022B			20526	USSR	14 MAR	15 MAR 90	
1990-024A	COSMOS 2062		20529	USSR	22 MAR	05 APR 90	
1990-024B			20530	USSR	22 MAR	23 MAR 90	
1990-024C			20542	USSR	22 MAR	09 APR 90	
1990-024D			20543	USSR	22 MAR	14 APR 90	
1990-024E			20544	USSR	22 MAR	08 APR 90	
1990-024F			20545	USSR	22 MAR	07 APR 90	
1990-024G			20548	USSR	22 MAR	08 APR 90	
1990-025B			20534	US	26 MAR	04 APR 90	

INTER-NATIONAL		DECAYED OBJECTS		CATALOG		LAUNCH		DECAY		NOTES	
DESIGNATION	NAME			NUMBER	SOURCE						
1990-026B				20537	USSR	27 MAR	22 APR 90				
1990-026C				20538	USSR	27 MAR	10 APR 90				
1990-027A	OFEQ 2			20540	ISRAEL	03 APR	09 JUL 90				
1990-027B				20541	ISRAEL	03 APR	20 JUN 90				
1990-032A	FOTON 3			20566	USSR	11 APR	27 APR 90				
1990-032B				20567	USSR	11 APR	21 APR 90				
1990-032C				20588	USSR	11 APR	16 MAY 90				
1990-032D				20589	USSR	11 APR	01 MAY 90				
1990-032E				20590	USSR	11 APR	07 MAY 90				
1990-033A	COSMOS 2072			20568	USSR	13 APR	21 NOV 90				
1990-033B				20569	USSR	13 APR	16 APR 90				
1990-035A	COSMOS 2073			20573	USSR	17 APR	28 APR 90				
1990-035B				20574	USSR	17 APR	18 APR 90				
1990-035C				20591	USSR	17 APR	29 APR 90				
1990-035D				20592	USSR	17 APR	29 APR 90				
1990-035E				20593	USSR	17 APR	29 APR 90				
1990-035F				20594	USSR	17 APR	29 APR 90				
1990-035G				20595	USSR	17 APR	01 MAY 90				
1990-035H				20601	USSR	17 APR	13 MAY 90				
1990-037A	STS-31			20579	US	17 APR	02 MAY 90				
1990-038A	COSMOS 2075			20581	USSR	24 APR	29 APR 90				
1990-038B				20582	USSR	25 APR	20 FEB 90				
1990-038C				20587	USSR	25 APR	30 DEC 91				
1990-038D				20746	USSR	25 APR	04 JUL 90				
1990-038E				20747	USSR	25 APR	02 OCT 90				
1990-038F				20748	USSR	25 APR	28 SEP 90				
1990-038G				20749	USSR	25 APR	20 SEP 90				
1990-038H				20750	USSR	25 APR	22 SEP 90				
1990-038J				20751	USSR	25 APR	25 SEP 90				
1990-038K				21864	USSR	25 APR	08 FEB 92				
1990-038L				21865	USSR	25 APR	07 FEB 92				
1990-038M				21866	USSR	25 APR	06 FEB 92				
1990-038N				21869	USSR	25 APR	13 FEB 92				
1990-038P				21870	USSR	25 APR	11 FEB 92				
1990-038Q				21871	USSR	25 APR	13 FEB 92				
1990-038R				21872	USSR	25 APR	12 FEB 92				
1990-039B				20584	USSR	26 APR	26 MAY 90				
1990-039C				20585	USSR	26 APR	23 MAY 90				
1990-040B				20597	USSR	28 APR	28 MAY 90				
1990-040C				20598	USSR	28 APR	13 MAY 90				
1990-040E				20600	USSR	28 APR	03 MAY 90				
1990-041A	PROGRESS-42			20602	USSR	05 MAY	27 MAY 90				
1990-041B				20603	USSR	05 MAY	07 MAY 90				
1990-042A	COSMOS 2077			20604	USSR	07 MAY	04 JUL 90				
1990-042B				20605	USSR	07 MAY	12 MAY 90				
1990-042C				20606	USSR	07 MAY	08 MAY 90				
1990-043G				20613	US	09 MAY	01 MAR 92				
1990-043J				20634	US	09 MAY	02 SEP 92				
1990-044A	COSMOS 2078			20615	USSR	15 MAY	28 JUN 90				
1990-044B				20616	USSR	15 MAY	19 MAY 90				
1990-044C				20617	USSR	15 MAY	16 MAY 90				
1990-045D				20622	USSR	19 MAY	19 MAY 90				

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990-047A	RESURS-F		20632	USSR	29 MAY	14 JUN 90	
1990-047B			20633	USSR	29 MAY	31 MAY 90	
1990-047C			20653	USSR	29 MAY	17 JUN 90	
1990-047D			20654	USSR	29 MAY	07 JUL 90	
1990-047E			20655	USSR	29 MAY	16 JUN 90	
1990-047F			20656	USSR	29 MAY	20 JUN 90	
1990-048B			20636	USSR	31 MAY	11 JUN 90	
1990-049B			20639	US	01 JUN	15 JAN 92	
1990-051B			20644	US	12 JUN	12 JUL 90	
1990-051C			20645	US	12 JUN	26 JUL 91	
1990-052B			20647	USSR	13 JUN	03 JUL 90	
1990-052C			20648	USSR	13 JUN	28 JUN 90	
1990-053A	COSMOS 2083		20657	USSR	19 JUN	03 JUL 90	
1990-053B			20658	USSR	19 JUN	21 JUN 90	
1990-053C			20675	USSR	19 JUN	19 JUL 90	
1990-053D			20676	USSR	19 JUN	30 SEP 90	
1990-053E			20677	USSR	19 JUN	29 JUL 90	
1990-053F			20678	USSR	19 JUN	20 JUL 90	
1990-053G			20679	USSR	19 JUN	09 AUG 90	
1990-054B			20660	USSR	20 JUN	22 JUN 90	
1990-054C			20661	USSR	20 JUN	21 JUN 90	
1990-054F			20711	USSR	20 JUN	02 JAN 91	
1990-055B			20664	USSR	21 JUN	21 JUL 90	
1990-055C			20665	USSR	21 JUN	20 JUL 90	
1990-056B			20668	US	23 JUN	26 JUN 90	
1990-058A	GAMMA		20683	USSR	11 JUL	28 FEB 92	
1990-058B			20684	US	11 JUL	12 JUL 90	
1990-059A	BADR-A		20685	PAKI	16 JUL	08 DEC 90	
1990-059B			20686	PRC	16 JUL	09 OCT 90	
1990-060A	RESURS-F7		20687	USSR	17 JUL	16 AUG 90	
1990-060B			20688	USSR	17 JUL	19 JUL 90	
1990-060C			20756	USSR	17 JUL	19 AUG 90	
1990-060D			20757	USSR	17 JUL	18 AUG 90	
1990-060E			20758	USSR	17 JUL	22 AUG 90	
1990-060F			20761	USSR	17 JUL	18 AUG 90	
1990-061B			20694	USSR	18 JUL	21 JUL 90	
1990-061C			20695	USSR	18 JUL	20 JUL 90	
1990-061E			20697	USSR	18 JUL	24 AUG 91	
1990-062A	COSMOS 2086		20702	USSR	20 JUL	03 AUG 90	
1990-062B			20703	USSR	20 JUL	22 JUL 90	
1990-062C			20727	USSR	20 JUL	08 AUG 90	
1990-062D			20728	USSR	20 JUL	16 AUG 90	
1990-062E			20729	USSR	20 JUL	04 AUG 90	
1990-062F			20730	USSR	20 JUL	06 AUG 90	
1990-062G			20731	USSR	20 JUL	04 AUG 90	
1990-064B			20708	USSR	25 JUL	22 AUG 90	
1990-064C			20709	USSR	25 JUL	08 AUG 90	
1990-064E			20714	USSR	25 JUL	14 AUG 90	
1990-064F			20715	USSR	25 JUL	08 AUG 90	
1990-064G			20716	USSR	25 JUL	05 AUG 90	
1990-067A	SOYUZ TM-10		20722	USSR	01 AUG	10 DEC 90	
1990-067B			20723	USSR	01 AUG	02 AUG 90	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990-068B	COSMOS 2089	20725	US	02 AUG	15 AUG 90	
1990-068C		20726	US	02 AUG	18 MAR 91	
1990-069A		20732	USSR	03 AUG	01 OCT 90	
1990-069B		20733	USSR	03 AUG	09 AUG 90	
1990-069C		20734	USSR	03 AUG	04 AUG 90	
1990-071B	PROGRESS M-4	20743	USSR	10 AUG	10 SEP 90	
1990-071C		20744	USSR	10 AUG	02 SEP 90	
1990-072A		20752	USSR	15 AUG	20 SEP 90	
1990-072B		20753	USSR	15 AUG	16 AUG 90	
1990-072C		20754	USSR	15 AUG	16 DCT 90	
1990-073A	RESURS-F8	20755	USSR	16 AUG	01 SEP 90	
1990-073B		20755	USSR	16 AUG	18 AUG 90	
1990-073C		20782	USSR	16 AUG	21 SEP 90	
1990-073D		20783	USSR	16 AUG	07 SEP 90	
1990-073E		20784	USSR	16 AUG	05 SEP 90	
1990-073F	COSMOS 2096	20785	USSR	16 AUG	04 SEP 90	
1990-073G		20786	USSR	16 AUG	03 SEP 90	
1990-073H		20787	USSR	16 AUG	03 SEP 90	
1990-075A		20765	USSR	23 AUG	30 AUG 92	
1990-075B		20766	USSR	23 AUG	24 AUG 90	
1990-076B	COSMOS 2099	20768	USSR	28 AUG	26 SEP 90	
1990-076C		20769	USSR	28 AUG	11 SEP 90	
1990-077B		20772	JAPAN	28 AUG	05 SEP 90	
1990-077C		20773	JAPAN	28 AUG	16 FEB 91	
1990-079C		20778	ESA	30 AUG	28 AUG 93	
1990-080A	COSMOS 2099	20781	ESA	30 AUG	28 SEP 91	
1990-080B		20779	USSR	31 AUG	14 SEP 90	
1990-080C		20780	USSR	31 AUG	01 SEP 90	
1990-080D		20796	USSR	31 AUG	10 SEP 90	
1990-080E		20806	USSR	31 AUG	23 SEP 90	
1990-080F	PRC 31	20807	USSR	31 AUG	16 SEP 90	
1990-080G		20808	USSR	31 AUG	15 SEP 90	
1990-080H		20809	USSR	31 AUG	17 SEP 90	
1990-081B		20810	USSR	31 AUG	16 SEP 90	
1990-081C		20789	PRC	03 SEP	11 MAR 91	
1990-081AB	PRC 32	20790	PRC	03 SEP	24 JUL 91	
1990-081B		20863	PRC	03 SEP	10 JAN 91	
1990-081BH		20897	PRC	03 SEP	21 JAN 93	
1990-081BU		20908	PRC	03 SEP	29 NOV 90	
1990-081BZ		20916	PRC	03 SEP	02 JAN 91	
1990-082A	RESURS-F9	20794	USSR	07 SEP	21 SEP 90	
1990-082B		20795	USSR	07 SEP	09 SEP 90	
1990-082C		20817	USSR	07 SEP	13 OCT 90	
1990-082D		20818	USSR	07 SEP	23 SEP 90	
1990-082E		20819	USSR	07 SEP	25 SEP 90	
1990-082F	COSMOS 2101	20820	USSR	07 SEP	25 SEP 90	
1990-084B		20814	USSR	20 SEP	03 OCT 90	
1990-084C		20815	USSR	20 SEP	01 OCT 90	
1990-085A		20824	USSR	27 SEP	28 NOV 90	
1990-085B		20825	USSR	27 SEP	28 SEP 90	
1990-087A	COSMOS 2101	20828	USSR	01 OCT	30 NOV 90	
1990-087B		20829	USSR	01 OCT	04 OCT 90	

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INTER - NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990-087C 1990-087D 1990-087E 1990-088B 1990-088C 1990-089A 1990-089B 1990-089C 1990-090A 1990-091D 1990-092A 1990-092B 1990-093C 1990-094B 1990-094C 1990-094F 1990-095B 1990-096A 1990-096B 1990-097A 1990-098A 1990-098B 1990-098C 1990-098D 1990-098E 1990-098F 1990-098G 1990-098H 1990-098J 1990-098K 1990-099B 1990-099C 1990-100D 1990-101B 1990-101C 1990-102B 1990-102C 1990-102E 1990-102F 1990-103C 1990-104C 1990-104D 1990-104E 1990-104F 1990-104H 1990-104J 1990-104K 1990-104L 1990-104M 1990-104N 1990-104P 1990-104Q	COSMOS 2102	STS-31	21003	USSR	01 OCT	08 DEC 90	
			21004	USSR	01 OCT	06 DEC 90	
			21005	USSR	01 OCT	10 DEC 90	
			20831	US	01 OCT	10 OCT 90	
			20832	US	01 OCT	18 JUN 91	
			20838	PRC	05 OCT	23 OCT 90	
			20839	PRC	05 OCT	15 OCT 90	
			20840	PRC	05 OCT	07 OCT 90	
			20841	US	06 OCT	10 OCT 90	
			20875	ESA	12 OCT	02 OCT 91	
1990-092A 1990-092B 1990-093C 1990-094B 1990-094C 1990-094F 1990-095B 1990-096A 1990-096B 1990-097A 1990-098A 1990-098B 1990-098C 1990-098D 1990-098E 1990-098F 1990-098G 1990-098H 1990-098J 1990-098K 1990-099B 1990-099C 1990-100D 1990-101B 1990-101C 1990-102B 1990-102C 1990-102E 1990-102F 1990-103C 1990-104C 1990-104D 1990-104E 1990-104F 1990-104H 1990-104J 1990-104K 1990-104L 1990-104M 1990-104N 1990-104P 1990-104Q	COSMOS 2103	STS-38	20909	USSR	16 OCT	12 DEC 90	
			20910	USSR	16 OCT	20 OCT 90	
			20920	US	30 OCT	03 MAR 91	
			20924	USSR	03 NOV	04 NOV 90	
			20925	USSR	03 NOV	05 NOV 90	
			20928	USSR	03 NOV	02 MAY 91	
			20930	US	13 NOV	13 NOV 90	
			20933	USSR	14 NOV	03 APR 91	
			20934	USSR	14 NOV	14 NOV 90	
			20935	US	15 NOV	20 NOV 90	
1990-092A 1990-092B 1990-093C 1990-094B 1990-094C 1990-094F 1990-095B 1990-096A 1990-096B 1990-097A 1990-098A 1990-098B 1990-098C 1990-098D 1990-098E 1990-098F 1990-098G 1990-098H 1990-098J 1990-098K 1990-099B 1990-099C 1990-100D 1990-101B 1990-101C 1990-102B 1990-102C 1990-102E 1990-102F 1990-103C 1990-104C 1990-104D 1990-104E 1990-104F 1990-104H 1990-104J 1990-104K 1990-104L 1990-104M 1990-104N 1990-104P 1990-104Q	COSMOS 2104	COSMOS 2104	20936	USSR	16 NOV	04 DEC 90	
			20937	USSR	16 NOV	05 DEC 90	
			20938	USSR	16 NOV	19 NOV 90	
			20939	USSR	16 NOV	20 NOV 90	
			20940	USSR	16 NOV	19 NOV 90	
			20956	USSR	16 NOV	07 DEC 90	
			20994	USSR	16 NOV	10 DEC 90	
			20995	USSR	16 NOV	05 DEC 90	
			20996	USSR	16 NOV	14 DEC 90	
			21002	USSR	16 NOV	06 DEC 90	
1990-092A 1990-092B 1990-093C 1990-094B 1990-094C 1990-094F 1990-095B 1990-096A 1990-096B 1990-097A 1990-098A 1990-098B 1990-098C 1990-098D 1990-098E 1990-098F 1990-098G 1990-098H 1990-098J 1990-098K 1990-099B 1990-099C 1990-100D 1990-101B 1990-101C 1990-102B 1990-102C 1990-102E 1990-102F 1990-103C 1990-104C 1990-104D 1990-104E 1990-104F 1990-104H 1990-104J 1990-104K 1990-104L 1990-104M 1990-104N 1990-104P 1990-104Q	COSMOS 2104	COSMOS 2104	20942	USSR	20 NOV	23 DEC 90	
			20943	USSR	20 NOV	07 DEC 90	
			20948	ESA	20 NOV	06 NOV 91	
			20950	USSR	23 NOV	26 DEC 90	
			20951	USSR	23 NOV	12 DEC 90	
			20954	USSR	23 NOV	25 NOV 90	
			20955	USSR	23 NOV	24 NOV 90	
			20957	USSR	23 NOV	01 JUL 91	
			20958	USSR	23 NOV	02 MAY 91	
			20961	US	26 NOV	30 SEP 92	
1990-092A 1990-092B 1990-093C 1990-094B 1990-094C 1990-094F 1990-095B 1990-096A 1990-096B 1990-097A 1990-098A 1990-098B 1990-098C 1990-098D 1990-098E 1990-098F 1990-098G 1990-098H 1990-098J 1990-098K 1990-099B 1990-099C 1990-100D 1990-101B 1990-101C 1990-102B 1990-102C 1990-102E 1990-102F 1990-103C 1990-104C 1990-104D 1990-104E 1990-104F 1990-104H 1990-104J 1990-104K 1990-104L 1990-104M 1990-104N 1990-104P 1990-104Q	COSMOS 2104	COSMOS 2104	20975	USSR	28 NOV	21 FEB 91	
			20976	USSR	28 NOV	23 FEB 91	
			20977	USSR	28 NOV	06 MAR 91	
			21070	USSR	28 NOV	10 MAR 91	
			21081	USSR	28 NOV	10 MAR 91	
			21083	USSR	28 NOV	11 NOV 90	
			21258	USSR	28 NOV	15 JUL 91	
			21259	USSR	28 NOV	10 JUL 91	
			21260	USSR	28 NOV	10 JUL 91	
			21261	USSR	28 NOV	10 JUL 91	
1990-092A 1990-092B 1990-093C 1990-094B 1990-094C 1990-094F 1990-095B 1990-096A 1990-096B 1990-097A 1990-098A 1990-098B 1990-098C 1990-098D 1990-098E 1990-098F 1990-098G 1990-098H 1990-098J 1990-098K 1990-099B 1990-099C 1990-100D 1990-101B 1990-101C 1990-102B 1990-102C 1990-102E 1990-102F 1990-103C 1990-104C 1990-104D 1990-104E 1990-104F 1990-104H 1990-104J 1990-104K 1990-104L 1990-104M 1990-104N 1990-104P 1990-104Q	COSMOS 2104	COSMOS 2104	21264	USSR	28 NOV	21 JUL 91	
			21265	USSR	28 NOV	14 JUL 91	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990-104R		2 1266	USSR	28 NOV	20 JUL 91	
1990-104S		2 1306	USSR	28 NOV	21 JUL 91	
1990-104T		2 1307	USSR	28 NOV	22 JUL 91	
1990-104U		2 1308	USSR	28 NOV	15 JUL 91	
1990-104V		2 1309	USSR	28 NOV	15 JUL 91	
1990-104W		2 1310	USSR	28 NOV	19 MAY 91	
1990-104X		2 1991	USSR	28 NOV	07 OCT 92	
1990-104Y		2 1992	USSR	28 NOV	17 SEP 92	
1990-104Z		2 1993	USSR	28 NOV	17 SEP 92	
1990-104AA		2 1994	USSR	28 NOV	07 OCT 92	
1990-104AB		2 1995	USSR	28 NOV	23 SEP 92	
1990-104AC		2 1996	USSR	28 NOV	22 SEP 92	
1990-104AD		22001	USSR	28 NOV	02 OCT 92	
1990-104AE		22002	USSR	28 NOV	06 OCT 92	
1990-104AF		22003	USSR	28 NOV	06 OCT 92	
1990-104AG		22486	USSR	28 NOV	05 APR 93	
1990-105C		20983	US	01 DEC	06 FEB 91	
1990-105D		20984	US	01 DEC	04 AUG 92	
1990-105E		20987	US	01 DEC	23 FEB 91	
1990-105F		20988	US	01 DEC	02 JUN 91	
1990-105G		20989	US	01 DEC	16 FEB 91	
1990-105H		20990	US	01 DEC	10 JAN 91	
1990-105J		20991	US	01 DEC	20 SEP 91	
1990-105K		20992	US	01 DEC	02 MAR 91	
1990-105L		20993	US	01 DEC	02 FEB 91	
1990-105N		20999	US	01 DEC	02 FEB 91	
1990-105P		20997	US	01 DEC	05 JAN 91	
1990-105Q		2 1071	US	01 DEC	09 APR 91	
1990-105R		2 1072	US	01 DEC	18 MAR 91	
1990-105T		2 1074	US	01 DEC	09 MAR 91	
1990-105U		2 1075	US	01 DEC	09 FEB 91	
1990-105V		2 1076	US	01 DEC	21 FEB 91	
1990-105W		2 1077	US	01 DEC	19 MAY 91	
1990-105X		2 1078	US	01 DEC	12 APR 91	
1990-105Y		2 1079	US	01 DEC	12 APR 91	
1990-105AC		2 1127	US	01 DEC	08 APR 91	
1990-105AD		2 1215	US	01 DEC	08 APR 91	
1990-106A		20980	US	02 DEC	11 DEC 90	
1990-107A	STS-35 SOTUZ TM 11	20981	USSR	02 DEC	26 MAY 91	
1990-107B		20982	USSR	02 DEC	04 DEC 90	
1990-108A	COSMOS 2 107	20985	USSR	04 DEC	05 APR 92	
1990-108B		20986	USSR	04 DEC	04 DEC 90	
1990-109A	COSMOS 2 108	2 1000	USSR	04 DEC	28 JAN 91	
1990-109B		2 1001	USSR	04 DEC	09 DEC 90	
1990-110D		2 1009	USSR	08 DEC	08 DEC 90	
1990-110E		2 1010	USSR	08 DEC	09 DEC 90	
1990-112B		2 1017	USSR	20 DEC	22 DEC 90	
1990-112C		2 1018	USSR	20 DEC	21 DEC 90	
1990-112E		2 1024	USSR	21 DEC	31 JUL 91	
1990-113A	COSMOS 2 113	2 1026	USSR	21 DEC	11 JUN 91	
1990-113B		2 1027	USSR	21 DEC	22 DEC 90	
1990-115A	COSMOS 2 120	2 1035	USSR	26 DEC	17 JAN 91	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECAVED OBJECTS						
1990-115B		21036	USSR	26 DEC	28 DEC 90	
1990-115C		21037	USSR	26 DEC	28 DEC 90	
1990-115D		21061	USSR	26 DEC	18 JAN 91	
1990-115E		21062	USSR	26 DEC	19 JAN 91	
1990-115F		21063	USSR	26 DEC	19 JAN 91	
1990-115G		21068	USSR	26 DEC	21 JAN 91	
1990-116G		21039	USSR	27 DEC	29 DEC 90	
1990-116C		21040	USSR	27 DEC	28 DEC 90	
1990-116E		21044	USSR	27 DEC	21 JUL 91	
1991 LAUNCHES						
1991-002A	PROGRESS M6	21053	USSR	14 JAN	15 MAR 91	
1991-002B		21054	USSR	14 JAN	15 JAN 91	
1991-004A	COSMOS 2121	21059	USSR	17 JAN	10 FEB 91	
1991-004B		21060	USSR	17 JAN	19 JAN 91	
1991-004C		21095	USSR	17 JAN	21 FEB 91	
1991-004D		21096	USSR	17 JAN	12 FEB 91	
1991-004E		21097	USSR	17 JAN	14 FEB 91	
1991-004F		21098	USSR	17 JAN	11 FEB 91	
1991-004G		21099	USSR	17 JAN	28 MAR 93	
1991-005A	COSMOS 2122	21065	USSR	18 JAN	19 JAN 91	
1991-005B		21066	USSR	18 JAN	30 MAY 91	
1991-005C		21067	USSR	18 JAN	02 JAN 93	
1991-005D		22299	USSR	18 JAN	07 APR 91	
1991-008A	COSMOS 2124	21092	USSR	07 FEB	11 FEB 91	
1991-008B		21093	USSR	07 FEB	08 FEB 91	
1991-008C		21094	USSR	14 FEB	16 FEB 91	
1991-010B		21112	USSR	14 FEB	14 FEB 91	
1991-010C		21113	USSR	15 FEB	01 APR 91	
1991-011A	COSMOS 2134	21116	USSR	15 FEB	19 FEB 91	
1991-011B		21117	USSR	15 FEB	16 FEB 91	
1991-011C		21123	USSR	15 FEB	26 FEB 91	
1991-012B		21119	USSR	15 FEB	22 FEB 91	
1991-012C		21120	USSR	28 FEB	02 MAR 91	
1991-014B		21133	USSR	28 FEB	28 FEB 91	
1991-014C		21134	USSR	28 FEB	10 SEP 91	
1991-014E		21201	USSR	28 FEB	20 MAR 91	
1991-014F		21202	USSR	06 MAR	17 MAR 91	
1991-016A	COSMOS 2136	21143	USSR	06 MAR	08 MAR 91	
1991-016B		21144	USSR	06 MAR	09 MAR 91	
1991-016C		21145	USSR	06 MAR	22 MAR 91	
1991-016D		21146	USSR	06 MAR	21 MAR 91	
1991-016E		21192	USSR	06 MAR	22 MAR 91	
1991-016F		21193	USSR	06 MAR	07 MAY 91	
1991-016G		21194	USSR	06 MAR	20 MAR 91	
1991-016H		21195	USSR	19 MAR	02 APR 91	
1991-020A	PROGRESS M-7	21188	USSR	22 MAR	28 MAR 91	
1991-020B		21189	USSR	22 MAR	29 MAR 91	
1991-022C		21198	USSR	22 MAR		
1991-022E		21200	USSR	22 MAR		

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1991-023A	COSMOS 2138	21203	USSR	26 MAR	24 MAY 91	
1991-023B		21204	USSR	26 MAR	29 MAR 91	
1991-024A	ALMAZ-1	21213	USSR	30 MAR	17 OCT 92	
1991-024B		21214	USSR	30 MAR	02 APR 91	
1991-025D		21219	USSR	04 APR	04 APR 91	
1991-027A		21224	US	05 APR	11 APR 91	
1991-031A	STS-39	21242	US	28 APR	06 MAY 91	
1991-031B	IBSS	21244	US	28 APR	06 MAY 91	
1991-031D		21245	US	28 APR	14 MAY 91	
1991-031E		21246	US	28 APR	12 MAY 91	
1991-031F		21247	US	28 APR	13 MAY 91	
1991-034A	SOYUZ TM-12	21311	USSR	18 MAY	10 OCT 91	
1991-034B		21312	USSR	18 MAY	19 MAY 91	
1991-035A	RESURS F-10	21313	USSR	21 MAY	20 JUN 91	
1991-035B		21314	USSR	21 MAY	23 MAY 91	
1991-035D		21480	USSR	21 MAY	20 JUN 91	
1991-035E		21485	USSR	21 MAY	23 JUN 91	
1991-036A	COSMOS 2149	21315	USSR	24 MAY	04 JUL 91	
1991-036B		21316	USSR	24 MAY	27 MAY 91	
1991-038A	PROGRESS M-8	21395	USSR	30 MAY	16 AUG 91	
1991-038B		21396	USSR	30 MAY	31 MAY 91	
1991-040A	STS-40	21399	US	05 JUN	14 JUN 91	
1991-043B		21427	USSR	18 JUN	02 JUL 91	
1991-043C		21428	USSR	18 JUN	27 JUN 91	
1991-044A	RESURS F-11	21524	USSR	28 JUN	21 JUL 91	
1991-044B		21525	USSR	28 JUN	30 JUN 91	
1991-044C		21605	USSR	28 JUN	21 JUL 91	
1991-044D		21605	USSR	28 JUN	10 AUG 91	
1991-044E		21606	USSR	28 JUN	23 JUL 91	
1991-044F		21607	USSR	28 JUN	25 JUL 91	
1991-044G		21608	USSR	28 JUN	28 JUL 91	
1991-044H		21609	USSR	28 JUN	23 JUL 91	
1991-046B		21534	USSR	02 JUL	04 JUL 91	
1991-046C		21535	USSR	02 JUL	03 JUL 91	
1991-046F		21541	USSR	02 JUL	26 FEB 92	
1991-047B	LOSAT-X	21553	US	04 JUL	15 NOV 91	
1991-047C		21554	US	04 JUL	29 OCT 91	
1991-048A	COSMOS 2152	21558	USSR	09 JUL	23 JUL 91	
1991-048B		21559	USSR	09 JUL	10 JUL 91	
1991-048C		21613	USSR	09 JUL	27 JUL 91	
1991-048D		21614	USSR	09 JUL	31 JUL 91	
1991-048E		21615	USSR	09 JUL	25 JUL 91	
1991-048F		21616	USSR	09 JUL	24 JUL 91	
1991-048G		21617	USSR	09 JUL	26 JUL 91	
1991-049A	COSMOS 2153	21560	USSR	10 JUL	13 MAR 92	
1991-049B		21561	USSR	10 JUL	13 JUL 91	
1991-051A	MICROSAT 1	21580	US	17 JUL	23 JAN 92	
1991-051B	MICROSAT 2	21581	US	17 JUL	23 JAN 92	
1991-051C	MICROSAT 3	21582	US	17 JUL	24 JAN 92	
1991-051D	MICROSAT 4	21583	US	17 JUL	23 JAN 92	
1991-051E	MICROSAT 5	21584	US	17 JUL	24 JAN 92	
1991-051F	MICROSAT 6	21585	US	17 JUL	25 JAN 92	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1991-051G	MICROSAT 7		21586	US	17 JUL	23 JAN 92	
1991-051H			21587	US	17 JUL	08 NOV 91	
1991-052A	RESURS F-12		21611	USSR	23 JUL	08 AUG 91	
1991-052B			21612	USSR	23 JUL	25 JUL 91	
1991-052C			21643	USSR	23 JUL	12 AUG 91	
1991-052D			21644	USSR	23 JUL	10 AUG 91	
1991-052E			21645	USSR	23 JUL	28 AUG 91	
1991-052F			21646	USSR	23 JUL	15 AUG 91	
1991-052G			21647	USSR	23 JUL	11 AUG 91	
1991-053B			21631	USSR	01 AUG	02 SEP 91	
1991-053C			21632	USSR	01 AUG	03 SEP 91	
1991-054A	STS-43		21638	US	02 AUG	11 AUG 91	
1991-057A	PROGRESS M-9		21662	USSR	20 AUG	30 SEP 91	
1991-057B			21663	USSR	20 AUG	22 AUG 91	
1991-058A	RESURS F-13		21664	USSR	21 AUG	20 SEP 91	
1991-058B			21665	USSR	21 AUG	23 AUG 91	
1991-058C			21715	USSR	21 AUG	21 SEP 91	
1991-058D			21716	USSR	21 AUG	21 SEP 91	
1991-058E			21717	USSR	21 AUG	22 SEP 91	
1991-060B			21669	JAPAN	25 AUG	07 SEP 91	
1991-060C			21670	JAPAN	25 AUG	01 MAY 92	
1991-062C			21696	JAPAN	30 AUG	27 JUN 93	
1991-062D			21697	JAPAN	30 AUG	04 AUG 93	
1991-062E			21698	JAPAN	30 AUG	11 MAY 93	
1991-062G			21786	JAPAN	30 AUG	09 JUN 93	
1991-063A	STS-48		21700	US	12 SEP	18 SEP 91	
1991-064C			21704	USSR	13 SEP	14 SEP 91	
1991-064D			21705	USSR	13 SEP	15 SEP 91	
1991-064E			21739	USSR	13 SEP	09 APR 92	
1991-064F			21740	USSR	13 SEP	09 MAY 92	
1991-065B			21707	USSR	17 SEP	30 SEP 91	
1991-065C			21708	USSR	17 SEP	25 SEP 91	
1991-065E			21710	USSR	17 SEP	27 SEP 91	
1991-065F			21718	USSR	17 SEP	27 SEP 91	
1991-065G			21719	USSR	17 SEP	25 SEP 91	
1991-065H			21720	USSR	17 SEP	17 NOV 91	
1991-066A	COSMOS 2156		21713	USSR	19 SEP	22 SEP 91	
1991-066B			21714	USSR	19 SEP	25 MAR 92	
1991-069A	SOYUZ TM-13		21735	USSR	02 OCT	03 OCT 91	
1991-069B			21736	USSR	02 OCT	20 OCT 91	
1991-070A	FOTON 4		21737	USSR	04 OCT	16 OCT 91	
1991-070B			21738	USSR	04 OCT	25 OCT 91	
1991-070C			21755	USSR	04 OCT	25 OCT 91	
1991-070D			21756	USSR	04 OCT	27 OCT 91	
1991-070E			21757	USSR	04 OCT	09 NOV 91	
1991-070F			21758	USSR	04 OCT	07 DEC 91	
1991-071A	COSMOS 2163		21741	USSR	09 OCT	12 OCT 91	
1991-071B			21742	USSR	09 OCT	12 DEC 92	
1991-072A	COSMOS 2164		21743	USSR	10 OCT	14 MAR 92	
1991-072B			21744	USSR	10 OCT	25 OCT 91	
1991-072C			21745	USSR	10 OCT		
1991-073A	PROGRESS M-10		21746	USSR	17 OCT	20 JAN 92	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1991-073B		21747	USSR	17 OCT	18 OCT 91	
1991-074B		21760	USSR	23 OCT	25 OCT 91	
1991-074C		21761	USSR	23 OCT	24 OCT 91	
1991-074E		21763	USSR	23 OCT	02 AUG 92	
1991-074F		21764	USSR	23 OCT	16 APR 92	
1991-078A	COSMOS 2171	21787	USSR	20 NOV	17 JAN 92	
1991-078B		21788	USSR	20 NOV	24 NOV 91	
1991-078C		21843	USSR	20 NOV	18 JAN 92	
1991-079B		21790	USSR	22 NOV	24 NOV 91	
1991-079C		21791	USSR	22 NOV	23 NOV 91	
1991-079E		21793	USSR	22 NOV	23 JUN 92	
1991-080A	STS 44	21795	US	24 NOV	01 DEC 91	
1991-085A	COSMOS 2174	21816	USSR	17 DEC	30 JAN 92	
1991-085B		21817	USSR	17 DEC	22 DEC 91	
1991-087B		21822	USSR	19 DEC	21 DEC 91	
1991-087C		21823	USSR	19 DEC	20 DEC 91	
1991-087E		21828	USSR	19 DEC	13 AUG 92	
1991-088B		21834	PRC	28 DEC	12 APR 93	
1992 LAUNCHES						
1992-001A	COSMOS 2175	21844	USSR	21 JAN	20 MAR 92	
1992-001B		21845	USSR	21 JAN	24 JAN 92	
1992-002A	STS-42	21846	US	22 JAN	30 JAN 92	
1992-003B		21848	USSR	24 JAN	19 FEB 92	
1992-003C		21849	USSR	24 JAN	05 FEB 92	
1992-004A	PROGRESS M-11	21851	USSR	25 JAN	13 MAR 92	
1992-004B		21852	USSR	25 JAN	26 JAN 92	
1992-005D		21856	USSR	29 JAN	30 JAN 92	
1992-005E		21857	USSR	29 JAN	30 JAN 92	
1992-011B		21898	USSR	04 MAR	28 MAR 92	
1992-011C		21899	USSR	04 MAR	19 MAR 92	
1992-014A	SOYUZ TM-14	21908	USSR	17 MAR	10 AUG 92	
1992-014B		21909	USSR	17 MAR	19 MAR 92	
1992-015A	STS 45	21915	US	24 MAR	02 APR 92	
1992-016A	COSMOS 2182	21920	USSR	01 APR	30 MAY 92	
1992-016B		21921	USSR	01 APR	04 APR 92	
1992-017B		21923	USSR	02 APR	04 APR 92	
1992-017C		21924	USSR	02 APR	02 APR 92	
1992-017E		21926	USSR	02 APR	23 OCT 92	
1992-017F		21927	USSR	02 APR	04 NOV 92	
1992-018A	COSMOS 2183	21928	USSR	08 APR	16 FEB 93	
1992-018B		21929	USSR	08 APR	10 APR 92	
1992-022A	PROGRESS M-12	21946	USSR	19 APR	27 JUN 92	
1992-022B		21947	USSR	19 APR	21 APR 92	
1992-024A	RESURS F-14	21951	USSR	29 APR	29 MAY 92	
1992-024B		21952	USSR	29 APR	01 MAY 92	
1992-024C		21975	USSR	29 APR	30 MAY 92	
1992-025A	COSMOS 2185	21953	USSR	29 APR	11 JUN 92	
1992-025B		21954	USSR	29 APR	03 MAY 92	
1992-026A	STS 49	21963	US	07 MAY	16 MAY 92	
1992-028A	SROSS 3	21968	INDIA	20 MAY	14 JUL 92	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1992-028B			21967	INDIA	20 MAY	24 JUN 92	
1992-029A	COSMOS 2186		21973	USSR	28 MAY	24 JUL 92	
1992-029B			21974	USSR	28 MAY	03 JUN 92	
1992-031B			21988	US	07 JUN	16 OCT 92	
1992-033A	RESURS F 15		21998	USSR	23 JUN	09 JUL 92	
1992-033B			21999	USSR	23 JUN	25 JUN 92	
1992-033C			22026	USSR	23 JUN	12 JUL 92	
1992-033D			22029	USSR	23 JUN	11 JUL 92	
1992-033E			22030	USSR	23 JUN	21 JUL 92	
1992-033F			22031	USSR	23 JUN	10 JUL 92	
1992-034A	STS 50		22000	US	25 JUN	09 JUL 92	
1992-035A	PROGRESS M-13		22004	USSR	30 JUN	24 JUL 92	
1992-035B			22005	USSR	30 JUN	02 JUL 92	
1992-040B			22018	USSR	08 JUL	15 AUG 92	
1992-040C			22019	USSR	08 JUL	26 JUL 92	
1992-040E			22021	USSR	08 JUL	14 JUL 92	
1992-040F			22022	USSR	08 JUL	07 AUG 92	
1992-043B			22042	USSR	14 JUL	17 JUL 92	
1992-043C			22043	USSR	14 JUL	15 JUL 92	
1992-043E			22047	USSR	14 JUL	18 JUN 93	
1992-044B			22050	US	24 JUL	16 MAR 93	
1992-044C			22051	US	24 JUL	01 JAN 93	
1992-045A	COSMOS 2203		22052	USSR	24 JUL	22 SEP 92	
1992-045B			22053	USSR	24 JUL	01 AUG 92	
1992-045C			22135	USSR	24 JUL	23 SEP 92	
1992-046A	SOYUZ TM-15		22054	USSR	27 JUL	01 FEB 93	
1992-046B			22055	USSR	27 JUL	29 JUL 92	
1992-047D			22059	USSR	30 JUL	30 JUL 92	
1992-048A	COSMOS 2207		22062	USSR	30 JUL	13 AUG 92	
1992-048B			22063	USSR	30 JUL	01 AUG 92	
1992-048C			22082	USSR	30 JUL	30 SEP 92	
1992-048D			22083	USSR	30 JUL	23 AUG 92	
1992-048E			22084	USSR	30 JUL	18 AUG 92	
1992-048F			22085	USSR	30 JUL	29 AUG 92	
1992-048G			22086	USSR	30 JUL	21 AUG 92	
1992-049A	STS-46		22064	US	31 JUL	08 AUG 92	
1992-049B	EURECA-1		22065	ESA	31 JUL	01 JUL 93	
1992-050B			22069	USSR	06 AUG	20 SEP 92	
1992-050C			22070	USSR	06 AUG	29 AUG 92	
1992-050E			22095	USSR	06 AUG	08 SEP 92	
1992-051A	PRC 35		22072	PRC	09 AUG	01 SEP 92	
1992-051B			22073	PRC	09 AUG	16 AUG 92	
1992-051C			22074	PRC	09 AUG	09 AUG 92	
1992-051D			22075	PRC	09 AUG	10 AUG 92	
1992-054B	PROGRESS M-14		22088	PRC	13 AUG	12 DEC 92	
1992-055A			22090	USSR	15 AUG	21 OCT 92	
1992-055B			22091	USSR	15 AUG	18 AUG 92	
1992-055C			22092	USSR	15 AUG	17 AUG 92	
1992-056A	RESURS F-16		22093	USSR	19 AUG	04 SEP 92	
1992-056B			22094	USSR	19 AUG	21 AUG 92	
1992-056C	PION 1		22099	USSR	19 AUG	25 SEP 92	
1992-056D	PION 2		22100	USSR	19 AUG	24 SEP 92	



# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1992-056E	STS 47 COSMOS 2210	22102	USSR	19 AUG	13 SEP 92	
1992-056F		22103	USSR	19 AUG	07 SEP 92	
1992-056G		22104	USSR	19 AUG	06 SEP 92	
1992-056H		22105	USSR	19 AUG	07 SEP 92	
1992-059B		22113	USSR	10 SEP	13 SEP 92	
1992-059C		22114	USSR	10 SEP	11 SEP 92	
1992-059E		22125	USSR	10 SEP	31 MAR 93	
1992-059F		22126	USSR	10 SEP	07 MAY 93	
1992-060C		22118	ESA	10 SEP	20 OCT 93	
1992-061A		22120	US	12 SEP	20 SEP 92	
1992-062A	PRC 36	22133	USSR	22 SEP	20 NOV 92	
1992-062B		22134	USSR	22 SEP	26 SEP 92	
1992-063B		22137	US	25 SEP	01 OCT 92	
1992-064B		22162	PRC	06 OCT	31 OCT 92	
1992-064C		22163	PRC	06 OCT	20 OCT 92	
1992-064D		22164	PRC	06 OCT	09 OCT 92	
1992-064E		22165	PRC	06 OCT	08 OCT 92	
1992-064F		22166	PRC	06 OCT	09 OCT 92	
1992-064G		22167	PRC	06 OCT	08 OCT 92	
1992-064H		22168	PRC	06 OCT	10 OCT 92	
1992-064J	FOTON 5	22169	PRC	06 OCT	09 OCT 92	
1992-064K		22170	PRC	06 OCT	09 OCT 92	
1992-065A		22173	USSR	08 OCT	24 OCT 92	
1992-065B		22174	USSR	08 OCT	22 OCT 92	
1992-065C		22179	USSR	08 OCT	20 NOV 92	
1992-065D		22200	USSR	08 OCT	31 OCT 92	
1992-065E		22201	USSR	08 OCT	30 OCT 92	
1992-065F		22202	USSR	08 OCT	03 NOV 92	
1992-067B		22179	USSR	14 OCT	28 OCT 92	
1992-067C		22180	USSR	14 OCT	24 OCT 92	
1992-067E	STS 52 CTA PROGRESS M-15	22190	USSR	14 OCT	28 OCT 92	
1992-069B		22190	USSR	21 OCT	25 NOV 92	
1992-069C		22191	USSR	21 OCT	07 NOV 92	
1992-070A		22194	US	22 OCT	01 NOV 92	
1992-070C		22214	CANADA	22 OCT	01 NOV 92	
1992-071A		22203	USSR	27 OCT	01 NOV 92	
1992-071B		22204	USSR	27 OCT	07 FEB 93	
1992-071C		22449	USSR	27 OCT	28 OCT 92	
1992-074B		22211	USSR	30 OCT	05 FEB 93	
1992-074C		22212	USSR	30 OCT	01 NOV 92	
1992-074F	RESURS 500	22216	USSR	30 OCT	31 OCT 92	
1992-075A		22217	USSR	30 OCT	03 JUN 93	
1992-075B		22218	USSR	15 NOV	22 NOV 92	
1992-075C		22234	USSR	15 NOV	18 NOV 92	
1992-075D		22235	USSR	15 NOV	30 NOV 92	
1992-077A		22226	USSR	20 NOV	28 NOV 92	
1992-077B		22227	USSR	20 NOV	18 JAN 93	
1992-078A		22229	US	20 NOV	24 NOV 92	
1992-078B		22230	US	21 NOV	18 JUL 93	
1992-081B	COSMOS 2220 MSTI	22239	USSR	21 NOV	09 FEB 93	
1992-081C		22240	USSR	25 NOV	28 DEC 92	
1992-081E		22242	USSR	25 NOV	14 DEC 92	
1992-081E		22242	USSR	25 NOV	15 DEC 92	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
DECAYED OBJECTS						
1992-081F		22243	USSR	25 NOV	29 NOV 92	
1992-081G		22244	USSR	25 NOV	09 DEC 92	
1992-082B		22246	USSR	27 NOV	30 NOV 92	
1992-082C		22247	USSR	27 NOV	28 NOV 92	
1992-082E		22249	USSR	27 NOV	14 JUL 93	
1992-085B		22256	USSR	02 DEC	14 DEC 92	
1992-085C		22257	USSR	02 DEC	11 DEC 92	
1992-085E		22262	USSR	02 DEC	15 DEC 92	
1992-086A	STS 53	22259	US	02 DEC	09 DEC 92	
1992-087A	COSMOS 2223	22260	USSR	09 DEC	16 DEC 93	
1992-087B		22261	USSR	09 DEC	12 DEC 92	
1992-087C		22929	USSR	09 DEC	19 DEC 93	
1992-088C		22270	USSR	17 DEC	19 DEC 92	
1992-088B		22271	USSR	17 DEC	18 DEC 92	
1992-090B		22279	PRC	21 DEC	19 JUN 93	
1992-091A	COSMOS 2225	22280	USSR	22 DEC	18 FEB 93	
1992-091B		22281	USSR	22 DEC	26 DEC 92	
1992-091C		22520	USSR	22 FEB	23 FEB 93	
1992-091D		22525	USSR	22 DEC	25 FEB 93	
1992-091E		22526	USSR	22 DEC	22 FEB 93	
1992-091F		22527	USSR	22 DEC	27 FEB 93	
1992-091G		22529	USSR	22 DEC	24 FEB 93	
1992-093FY		22483	USSR	25 DEC	22 FEB 93	
1992-093HU		22548	USSR	25 DEC	19 MAY 93	
1992-095A	COSMOS 2229	22300	USSR	29 DEC	10 JAN 93	
1992-095B		22301	USSR	29 DEC	16 JAN 93	
1992-095C		22302	USSR	29 DEC	11 FEB 93	
1992-095D		22303	USSR	29 DEC	18 JAN 93	
1992-095E		22304	USSR	29 DEC	29 JAN 93	
1992-095F		22305	USSR	29 DEC	18 JAN 93	
1992-095G		22306	USSR	29 DEC	12 JAN 93	
1993 LAUNCHES						
1993-002B		22310	USSR	13 JAN	04 MAR 93	
1993-002C		22311	USSR	13 JAN	05 FEB 93	
1993-003A	STS 54	22313	US	13 JAN	19 JAN 93	
1993-004A	COSMOS 2231	22317	USSR	19 JAN	25 MAR 93	
1993-004B		22318	USSR	19 JAN	23 JAN 93	
1993-005A		22319	USSR	24 JAN	22 JUL 93	
1993-005B	SOYUZ TM-16	22320	USSR	24 JAN	26 JAN 93	
1993-006B		22322	USSR	26 JAN	09 MAR 93	
1993-006C		22323	USSR	26 JAN	14 FEB 93	
1993-006E		22325	USSR	26 JAN	28 FEB 93	
1993-010D		22515	USSR	17 FEB	18 FEB 93	
1993-010E		22516	USSR	17 FEB	18 FEB 93	
1993-012A	PROGRESS M-16	22530	USSR	21 FEB	27 MAR 93	
1993-012B		22531	USSR	21 FEB	23 FEB 93	
1993-013B		22558	USSR	25 MAR	27 MAR 93	
1993-013C		22559	USSR	25 MAR	25 MAR 93	
1993-013E		22569	USSR	25 MAR	21 OCT 93	
1993-013F		22570	USSR	25 MAR	29 SEP 93	

# DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1993-017B	SEDS I	22582	US	30 MAR	30 MAR 93	
1993-018B		22586	USSR	30 MAR	31 MAR 93	
1993-019B		22589	USSR	31 MAR	01 APR 93	
1993-021A	COSMOS 2240	22592	USSR	02 APR	07 JUN 93	
1993-021B		22593	USSR	02 APR	07 APR 93	
1993-022B		22595	USSR	06 APR	10 MAY 93	
1993-022C		22596	USSR	06 APR	22 APR 93	
1993-022E		22629	USSR	06 APR	29 APR 93	
1993-022F		22630	USSR	06 APR	05 MAY 93	
1993-023A	STS 56	22621	US	08 APR	17 APR 93	
1993-023B	SPARTAN 201	22623	US	08 APR	13 APR 93	
1993-025B		22634	USSR	21 APR	30 MAY 93	
1993-025C		22635	USSR	21 APR	12 MAY 93	
1993-027A	STS 55	22640	US	26 APR	06 MAY 93	
1993-028A	COSMOS 2243	22641	USSR	27 APR	06 MAY 93	
1993-028B		22642	USSR	27 APR	01 MAY 93	
1993-029B		22644	USSR	28 APR	28 APR 93	
1993-033A	RESURS F-2	22663	USSR	21 MAY	20 JUN 93	
1993-033B		22664	USSR	21 MAY	24 MAY 93	
1993-033C		22681	USSR	21 MAY	22 JUN 93	
1993-033D		22682	USSR	21 MAY	22 JUN 93	
1993-033E		22685	USSR	21 MAY	25 JUN 93	
1993-033F		22686	USSR	21 MAY	23 JUN 93	
1993-034A	PROGRESS M-18	22667	USSR	22 MAY	04 JUL 93	
1993-034B		22667	USSR	22 MAY	25 MAY 93	
1993-035B		22672	USSR	26 MAY	16 JUN 93	
1993-035C		22673	USSR	26 MAY	06 JUN 93	
1993-037A	STS 57	22684	US	21 JUN	01 JUL 93	
1993-040A	RESURS F-18	22696	USSR	25 JUN	12 JUL 93	
1993-040B		22697	USSR	25 JUN	27 JUN 93	
1993-040C		22711	USSR	25 JUN	27 JUL 93	
1993-040D		22712	USSR	25 JUN	17 JUL 93	
1993-040E		22713	USSR	25 JUN	18 JUL 93	
1993-040F		22714	USSR	25 JUN	14 JUL 93	
1993-040G		22715	USSR	25 JUN	14 JUL 93	
1993-042B		22701	US	26 JUN	30 AUG 93	
1993-043B		22705	USSR	01 JUL	03 JUL 93	
1993-044B		22710	USSR	07 JUL	07 JUL 93	
1993-045A	COSMOS 2259	22716	USSR	14 JUL	25 JUL 93	
1993-045B		22717	USSR	14 JUL	19 JUL 93	
1993-047A	COSMOS 2260	22721	USSR	22 JUL	05 AUG 93	
1993-047B		22722	USSR	22 JUL	24 JUL 93	
1993-047C		22733	USSR	22 JUL	14 SEP 93	
1993-047D		22734	USSR	22 JUL	12 AUG 93	
1993-047E		22735	USSR	22 JUL	18 AUG 93	
1993-047F		22736	USSR	22 JUL	09 AUG 93	
1993-047G		22737	USSR	22 JUL	15 AUG 93	
1993-049B		22730	USSR	04 AUG	30 AUG 93	
1993-049C		22731	USSR	04 AUG	17 AUG 93	
1993-051B		22742	USSR	10 AUG	06 OCT 93	
1993-051C		22743	USSR	10 AUG	04 SEP 93	
1993-052A	PROGRESS M-19	22745	USSR	10 AUG	13 OCT 93	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1993-052B	RESURS F-19	22746	USSR	10 AUG	13 AUG 93	
1993-053A		22777	USSR	24 AUG	10 SEP 93	
1993-053B		22778	USSR	24 AUG	27 AUG 93	
1993-053C		22791	USSR	24 AUG	12 SEP 93	
1993-053D	COSMOS 2262	22792	USSR	24 AUG	24 SEP 93	
1993-053E		22793	USSR	24 AUG	15 SEP 93	
1993-053F		22794	USSR	24 AUG	13 SEP 93	
1993-057A		22789	USSR	07 SEP	18 DEC 93	
1993-057B	STS 51 ORFEUS SPA	22790	USSR	07 SEP	11 SEP 93	
1993-057C		22953	USSR	12 SEP	30 DEC 93	
1993-058A		22795	US	12 SEP	22 SEP 93	
1993-058C		22798	FRG	12 SEP	22 SEP 93	
1993-058E	STS 58	22799	US	12 SEP	16 SEP 93	
1993-058F		22800	US	12 SEP	17 SEP 93	
1993-060B		22809	USSR	17 SEP	30 SEP 93	
1993-062B		22837	USSR	30 SEP	30 OCT 93	
1993-062C	PROGRESS M 20	22838	USSR	08 OCT	01 OCT 93	
1993-063B		22860	PRC	08 OCT	22 OCT 93	
1993-063C		22861	PRC	08 OCT	12 OCT 93	
1993-063D		22862	PRC	08 OCT	11 OCT 93	
1993-063E	STS 51	22863	PRC	08 OCT	10 OCT 93	
1993-063F		22864	PRC	08 OCT	09 OCT 93	
1993-063G		22865	PRC	08 OCT	28 OCT 93	
1993-063H		22870	PRC	08 OCT	21 NOV 93	
1993-064A	STS 58	22867	USSR	11 OCT	13 OCT 93	
1993-064B		22868	USSR	11 OCT	01 NOV 93	
1993-065A		22869	US	18 OCT	31 OCT 93	
1993-069B		22881	USSR	28 OCT	29 OCT 93	
1993-069C	STS-61	22882	USSR	28 OCT	08 NOV 93	
1993-071B		22905	USSR	05 NOV	21 NOV 93	
1993-072B		22908	USSR	18 NOV	19 NOV 93	
1993-072C		22909	USSR	18 NOV	13 DEC 93	
1993-075A		22917	US	02 DEC		

# FOOTNOTES FOR DECAYED OBJECTS

- A\* ANNOUNCED LUNAR IMPACT.
- B\* SUCCESSFUL RE-ENTRY AND RECOVERY.
- C\* ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY.
- D\* SUCCESSFUL RE-ENTRY BUT NOT RECOVERY.
- E\* ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY OF MANNED SPACE VEHICLE.
- F\* SUCCESSFULLY ORBITED AND RECOVERED A MANNED SPACE VEHICLE.
- G\* LUNAR IMPACT.
- H\* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1962 B-IOTA 1. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
- J\* 98 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1964 O70A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
- K\* 168 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 O12A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
- L\* 150 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 O20A, 1965 O20B AND 1965 O20C. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
- M\* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 O88A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
- N\* ANNOUNCED DECAY ON VENUS.
- P\* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 112A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
- Q\* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH- ING OR COUNTRY OF ORIGIN.
- R\* ANNOUNCED THAT SPACECRAFT LANDED ON THE MOON.
- S\* 40 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 O12A, 1966 O12B AND 1966 O12C. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
- T\* LANDED ON THE MOON.
- U\* 54 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 O46A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
- V\* 82 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 O56A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
- W\* 35 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 O59A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
- X\* 53 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 O88A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

# FOOTNOTES FOR DECAYED OBJECTS

Y\* 41 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 101A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

Z\* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 104A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AB\* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED 1967 011A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AC\* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1967 024A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AD\* ANNOUNCED RE-ENTRY AND RECOVERY OF A MANNED SPACE VEHICLE.

AE\* 16 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 025A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AF\* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 117A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AG\* A MANNED SPACECRAFT SUCCESSFULLY ORBITED THE MOON AND WAS RECOVERED.

AH\* 23 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 021A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AJ\* A MANNED SPACECRAFT WHICH SUCCESSFULLY ORBITED THE MOON, LANDED MAN ON THE MOON IN THE LUNAR MODULE, AND WAS RECOVERED.

AK\* 38 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 029A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AL\* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 064A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AM\* A MANNED SPACECRAFT WHICH SUCCESSFULLY LANDED ON THE MOON, RETURNED TO SELENDCENTRIC ORBIT, THEN DECAYED ON THE SURFACE OF THE MOON.

AN\* A MANNED SPACECRAFT WHICH PASSED AROUND THE MOON AND WAS SUCCESSFULLY RECOVERED ON THE EARTH.

AP\* ANNOUNCED THAT SPACECRAFT LANDED ON THE MOON, RETURNED TO EARTH, AND WAS SUCCESSFULLY RECOVERED.

AQ\* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH.

AR\* ANNOUNCED DECAY ON MARS.

AS\* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 074A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AT\* 29 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 106A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AU\* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 017A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

# FOOTNOTES FOR DECAYED OBJECTS

AV\* 197 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 021A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AW\* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 027A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AX\* 14 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 075A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AY\* 20 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 074A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AZ\* 51 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 103A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BA\* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 104A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BB\* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 044A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BC\* 1975 066A, CARRYING U.S. APOLLO ASTRONAUTS, AND 1975 065A, CARRYING USSR SOYUZ COSMONAUTS, DOCKED, CREW MEMBERS VISITED EACH OTHER'S SPACECRAFT, AND WERE SUCCESSFULLY RECOVERED.

BD\* LANDED ON MARS.

BE\* 77 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 080A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BF\* 63 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 102A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BG\* 17 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 012A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BH\* 25 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 037A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BJ\* 41 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 063A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BK\* 249 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 072A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BL\* ANNOUNCED THAT SPACECRAFT RETURNED TO EARTH FROM THE MOON AND WAS SUCCESSFULLY RECOVERED.

BM\* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 124A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BN\* 22 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 042A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BP\* 106 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 097A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

FOOTNOTES FOR DECAYED OBJECTS

BQ\* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 111A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BR\* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1979 063A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BS\* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 047A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BT\* SUCCESSFUL EARTH ORBIT AND EARTH LANDING OF MANNED SPACECRAFT.

BU\* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 067A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BV\* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1981 097A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

BW\* 25 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 007A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

BX\* 184 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 033A. THE OBJECTS OF THIS SERIES REMAINING IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

BY\* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 076A. ALL OBJECTS IN THIS SERIES HAVE DECAYED.

BZ\* 33 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 088A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

CA\* 1984 011B (WESTAR 6) WAS RECOVERED BY 1984 113A (STS 51A) ON NOVEMBER 14, 1984.

CB\* 1984 011D (PALAPA B2) WAS RECOVERED BY 1984 113A (STS 51A) ON NOVEMBER 12, 1984.

CC\* SOFT LANDED ON VENUS

CD\* 29 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1985 050A. THE OBJECTS OF THIS SERIES REMAINING IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.









